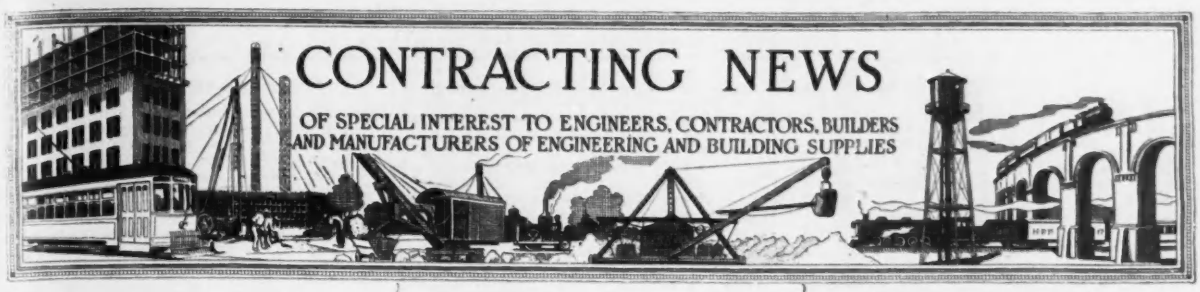

Proposals

For Proposals Advertised See Pages 77 to 83 Inclusive

WATERWORKS

Bids Close.		See Eng. News-Record.
June 1.	Madison, W. Va.	May 31
June 4.	Barrow, Wis.	May 24
June 4.	McMinnville, Ore	May 31
June 4.	Milbank, S. D.	May 24
June 4.	Brooklyn, N. Y.	May 31
June 4.	Titusville, Pa.	May 31
	Adv. May 24 and 31.	
June 5.	Constantine, Mich.	May 24
June 5.	Clinton, Miss.	May 31
June 6.	Trail, B. C.	May 31
June 8.	West Haverstraw, N. Y.	May 24
	Adv. May 24 and 31.	
June 12.	Kendallville, Ind.	May 31
	Adv. May 24 and 31.	
June 15.	Niles Mich.	May 31
June 18.	Wadsworth, O.	May 31

SEWERS

June 2.	Burlington, Wis.	May 10
June 5.	Newark, N. J.	May 10
	Adv. May 24 and 31.	
June 2.	Sioux City, Ia.	May 31
June 4.	Covington, Va.	May 31
June 4.	Fitchell, S. D.	May 31
	Adv. May 24 and 31.	
June 4.	Warren, Minn.	May 31
June 4.	Wilburton, Okla.	May 31
June 4.	Mt. Pleasant, Pa.	May 31
June 5.	Auburn, N. Y.	May 10
June 5.	Oklahoma, Okla.	May 24
	Adv. May 3 to May 17.	
June 6.	Huntington, W. Va.	May 24
June 7.	Cleveland, O.	May 31
June 7.	Brooklyn, N. Y.	May 31
June 8.	New York, N. Y.	May 31
June 11.	Los Angeles, Cal.	May 31
June 12.	Newark, N. J.	May 17
June 12.	Yuma, Ariz.	May 31
June 19.	Newark, N. J.	May 24
June 19.	Newark, N. J.	May 31
June 28.	Chicago, Ill.	May 24
	Adv. May 24.	

STRUCTURAL STEEL WORK

June 4.	Fairfield, Cal.	May 24
June 4.	Ft. Worth, Tex.	May 31
June 4.	Jackson, Ky.	May 31
June 5.	Oacoma, S. D.	May 24
June 5.	Miller, S. D.	May 24
June 5.	Parker, S. D.	May 24
June 5.	Mt Vernon, Wash.	May 24
June 6.	Dayton, O.	May 17
June 6.	Providence, R. I.	May 31
June 7.	Coquille, Ore.	May 24
June 8.	New Ulm, Minn.	May 24
June 9.	Cleveland, O.	May 31
May 19.	Winchester, Ill.	May 31
June 20.	Salem, Ore.	May 31
	Adv. May 31.	

REINFORCED CONCRETE

June 4.	Olympia, Wash.	May 24
June 4.	Hollister, Cal.	May 24
June 4.	Montgomery, Minn.	May 31
June 4.	Sioux Falls, S. D.	May 31
June 4.	Lawrence, Mass.	May 31
	Adv. May 31.	
June 5.	Elkader, Ia.	May 17
	Adv. May 24 and 31.	
June 5.	Oswego, Kan.	May 24
June 5.	Leola, S. D.	May 31
	Adv. May 24 and 31.	
June 6	Winfield, Kan.	May 24
June 7.	Toledo, Ia.	May 31
June 7.	Elsmere, Del.	May 31
June 8.	San Diego, Cal.	May 31
June 9.	Middlebury, Pa.	May 31
June 11.	New Philadelphia, O.	May 24
June 11.	Sunbury, Pa.	May 31
June 19.	Luverne, Minn.	May 31
June 20.	Canton, O.	May 31
June 21.	Columbus, O.	May 31

STREETS AND ROADS

June 2.	Dayton, O.	May 17
June 2.	Lakewood, N. J.	May 17
	Adv. May 17 and 24.	
June 2.	New Cumberland, W. Va.	May 31
June 4.	Mishawaka, Ind.	May 10
June 4.	Westfield, N. J.	May 17
	Adv. May 17.	
June 4.	Woodland, Cal.	May 24
June 4.	Covington, Va.	May 24
June 4.	Wooster, O.	May 24
June 4.	De Kalb, Miss.	May 31
June 4.	Linden, Ala.	May 31
June 4.	Raymond, Miss.	May 31
June 4.	Indiana	May 31
June 4.	Staten Island, N. Y.	May 31
June 4.	California	May 31
June 5.	Boulder, Colo.	May 17
June 5.	Indiana	May 17
June 5.	Yadkinville, N. C.	May 17
June 5.	Oklahoma, Okla.	May 24
June 5.	Coalgate, Okla.	May 24
June 5.	Johnson City, Tenn.	May 24
June 5.	Meridan, Miss.	May 31
June 5.	Wilmington, Del.	May 31
June 5.	Hatiesburg, Miss.	May 31
June 5.	Sacramento, Cal.	May 31
June 5.	Indiana	May 31
June 5.	Defiance, O.	May 31
June 5.	Rushville, Ind.	May 31
June 6.	Bay Minette, Ala.	May 24
June 6.	Visalia, Cal.	May 24
June 6.	Indiana	May 17
June 6.	Baltimore, Md.	May 31
June 6.	Kansas City, Mo.	May 31
June 6.	New Augusta, Miss.	May 31
June 6.	Indiana	May 31
June 6.	Hackensack, N. J.	May 31
June 6.	Fairbury, Neb.	May 31
June 6.	Burton, O.	May 31
June 6.	Cincinnati, O.	May 31
June 6.	Weehawken, N. J.	May 31
June 6.	Atlanta, Ga.	May 31
June 6.	Lebanon, O.	May 31
June 7.	Indiana	May 17
June 7.	Coquille, Ore.	May 31
June 7.	Indiana	May 31
June 7.	Trenton, N. J.	May 31
June 7.	Brooklyn, N. Y.	May 31
June 7.	New York, N. Y.	May 31
June 7.	Clarldon, O.	May 31
June 8.	Crowley, La.	May 10
June 8.	South Bend, Wash.	May 31
June 10.	Seattle, Wash.	May 24
June 11.	Fayetteville, W. Va.	May 17
June 11.	Seattle, Wash.	May 31
June 11.	Olympia, Wash.	May 31
June 11.	Camden, N. J.	May 31
June 12.	Harrisburg, Pa.	May 17
	Adv. May 24 and 31.	
June 12.	Thief River Falls, Minn.	May 31
June 12.	Florence, Ariz.	May 31
June 12.	Harrisburg, Pa.	May 31
June 12.	Troy, Ala.	May 31
June 14.	Fairmont, W. Va.	May 24
June 14.	Dayton, O.	May 31
June 15.	Wynne, Ark.	May 31
	Adv. May 31.	
June 15.	Cleveland, Tenn.	May 31
July 1.	Pine City, Minn.	May 31
June 18.	Ft. Ransom, N. D.	May 31
June 18.	New Brunswick, N. J.	May 31
Aug. 13.	Lewiston, Idaho	May 24
June 19.	Belvidere, N. J.	May 31

EXCAVATION AND DREDGING

June 5.	Fremont, Neb.	May 17
June 5.	Tallahassee, Fla.	May 24
	Adv. May 24 and 31.	
June 5.	Grundy Center, Ia.	May 24
June 5.	Ada, Minn.	May 31
June 5.	Mason City, Ia.	May 31
June 6.	Owatonna, Minn.	May 24
June 6.	Bloomfield, Mo.	May 31
June 7.	Madison, S. D.	May 17
	Adv. May 17 and 24.	
June 8.	Charles City, Ia.	May 31
June 11.	Greenville, Miss.	May 31
June 12.	Fresno, Cal.	May 24
June 12.	Crookston, Minn.	May 31
June 13.	Bloomfield, Mo.	May 31
June 14.	Lonoke, Ark.	May 17
	Adv. May 17.	
June 15.	Algona, Ia.	May 31
June 18.	Petersburg, Ind.	May 24
June 18.	Opelousas, Ia.	May 31
June 22.	Chaska, Minn.	May 31
June 26.	Albany, N. Y.	May 31
	Adv. May 31.	

BUILDINGS

Bids Close.		See Eng. News-Record.
June 2.	Redfield, S. D.	May 10
June 2.	Wheeling, W. Va.	May 24
June 4.	Drake, N. D.	May 17
June 4.	College Springs, Ia.	May 24
June 4.	Fargo, N. D.	May 24
June 4.	Norwood, Mass.	May 31
June 4.	Colbert, Okla.	May 31
June 4.	New York, N. Y.	May 31
June 4.	Pawling, N. Y.	May 31
June 4.	Lockport, Ind.	May 31
June 5.	Ness City, Kan.	May 17
June 5.	Centerville, Ia.	May 24
June 5.	Metcalf, Ariz.	May 31
June 5.	Senatobia, Miss.	May 31
June 5.	Clarendon, Tex.	May 31
June 6.	Canton, O.	May 17
June 7.	York, Neb.	May 31
June 8.	Dublin, O.	May 31
June 9.	Jacksonville, Fla.	May 17
June 9.	Randolph, Ia.	May 24
June 9.	Greenville, O.	May 31
June 10.	Isabella, Tenn.	May 31
June 11.	Cleveland, O.	May 24
June 11.	Urbana, Ill.	May 31
	Adv. May 31.	
June 12.	New York, N. Y.	May 31
June 12.	Vandergrift, Pa.	May 24
June 12.	Centerville, Ia.	May 31
June 15.	Lakota, N. S.	May 24
June 15.	Miami, Okla.	May 31
June 18.	Austin, Tex.	May 31
June 18.	Epworth, Ia.	May 31
June 19.	Clearwater, Fla.	May 31
June 22.	Lebanon, O.	May 31

FEDERAL GOVERNMENT WORK

June 2.	Washington, D. C.	May 24
June 4.	Sanford, Fla.	May 10
June 4.	Wilmington, Del.	May 17
	Adv. May 24 and 31.	
June 4.	Washington, D. C.	May 24
June 4.	Norfolk, Va.	May 31
June 4.	New York, N. Y.	May 31
June 4.	Washington, D. C.	May 31
June 5.	Olney, Ill.	May 3
June 6.	Orange, Tex.	May 3
June 6.	Golden Gate, Cal.	May 17
	Adv. May 24 and 31.	
June 6.	Ft. Laramie, Wyo.	May 17
June 6.	Ft. Andrews, Mass.	May 24
June 7.	Marion, Ill.	May 3
June 7.	Cape Henry, Va.	May 24
June 8.	Denton, Tex.	May 17
June 9.	Montgomery, Ala.	May 17
	Adv. May 17 and 24.	
June 11.	Bridgeport, Conn.	May 17

Close. Bids.		News-Record. See Eng.
June 11.	New York, N. Y. Adv. May 17 and 24.	May 17
June 11.	Washington, D. C.	May 24
June 11.	Ft. Mifflin, Pa.	May 31
June 11.	Phila., Pa.	May 31
June 12.	State College, Pa. Adv. May 17 and 24.	May 17
June 14.	Washington D. C. Adv. May 24 and 31.	May 31
June 14.	Cherryvale, Kan.	May 17
June 14.	Three Rivers, Cal.	May 17
June 14.	Ft. Bliss, Tex. Adv. May 24 and 31.	May 24
June 14.	Wash., D. C.	May 24
June 14.	Washington, D. C. Adv. May 24-31.	May 31
June 15.	Memphis, Tenn. Adv. May 24 and 31.	May 24
June 16.	Montgomery, Ala. Adv. May 24 and 31.	May 17
June 18.	Akron, O.	May 17
June 18.	Pensacola, Fla.	May 31
June 19.	Montevideo, Minn.	May 17
June 19.	Aledo, Ill. Adv. May 24 and 31.	May 17
June 20.	Beaufort, S. C. Adv. May 17.	May 17
June 20.	Ft. Royal, Va.	May 31
June 20.	Galveston, Tex. Adv. May 24 and 31.	May 31
June 21.	Cambridge, Md.	May 17
June 22.	Fordyce, Ark. Adv. May 17 and 24.	May 24
June 23.	Raton, N. M.	May 17
June 23.	New York, N. Y. Adv. May 24 and 31.	May 31
June 25.	Washington, D. C.	May 31
June 25.	New Orleans, La. Adv. May 31.	May 31
June 26.	Monessen, Pa.	May 31
June 28.	New Orleans, La. Adv. May 31.	May 31
June 28.	Detroit, Mich. Adv. May 31.	May 31

MISCELLANEOUS

Bids Close.		See Eng. News-Record.
June 4.	Jetty—Newport Beach, Cal. Adv. May 17 to 31.	May 17
June 4.	Tracks—New York, N. Y.	May 24
June 4.	Fire Alarm System. Placerville, Cal.	May 31
June 5.	Transmission Line. Ft. Dodge, Ia.	May 31
June 7.	Castings, New York, N. Y.	May 31
June 7.	Tunnel Improvements, Boston Mass.	May 31
June 8.	Fire Escapes—Rochester, N. Y. Av. May 31.	May 31

Where name of official is not given, inquiries should be addressed to City Clerk., County Clerk or corresponding official.

WATER-WORKS

Proposed Work

N. J., Asbury Park—City plans to install 6,000,000-gal. pump at pumping plant. S. H. Calvert, clk.

Va., Richmond—(Official)—City making surveys 11-mi. recently annexed territory with view to installing water, sewer and gas mains, pavements, and parks. C. E. Bolling, city engr.

Ga., Swainsboro — (Official) — City defeated bonds installing water and sewerage systems. G. P. Edenfield, clk.

Ala., Talladega—City plans to install new water supply system. About $145,000 available for work. A. G. Weldon, clk. Noted Apr. 19.

La., Slidell—See "Streets and Roads."

Tenn., Arlington—City plans to install water-works and lighting plant.

Tenn., Paris—City voted $40,000 bonds part of proceeds to be used to build filtration plant. M. W. Younkin, supt.

O., Chardon—City voted bonds to install water-works.

O., Defiance—F. G. Gettrost, cons. engr., Kent, submitted report to City Council estimating cost filtration plant using of Maumee River as water supply, at $65,000.

Ia., Sioux City—City plans to extend Main St. pumping station. About $50,000. J. M. Lewis, supt.

Minn., Remer—(Official)—City to sell $10,000 bonds for waterworks and $3500 for sewers, June 9. Noted May 10.

Kan., Hays—City having plans prepared by E. T. Archer & Co., engrs., 609 New England Bldg., Kansas City, Mo., for improving water and light plants. About $50,000.

Kan., Parsons—City plans to install water-works. About $600,000 to $700,000. F. E. Workman, supt.

Kan., Tipton—City voted $20,000 bonds for water-works. G. P. Taylor, Stockton, engr. Noted May 3.

Kan., Utica—City voted $22,000 bonds for water-works. G. Taylor, Stockton, engr.

Mont., Billings—City voted $50,000 bonds to install water and light plant and sewers. MacIntosh-Walton Engr. Co., 1023 State Natl. Bank Bldg., Oklahoma, engrs.

Tex., Abilene—City Comn. considering installation of new water-works pumping plant and development of project for supplying city with inexhaustible quantities pure water. Plans involve expenditure of $150,000 to $500,000. W. A. Rincy, city engr.

Okla., Altus—Council plans to build additional reservoir for water supply.

Okla., Broken Bow—Council plans election to vote on bonds to install water system.

Okla., Commerce—City plans election to vote on bonds to install water system.

Okla., Enid—City election soon to vote on bonds to improve water-works system. Noted May 24.

Okla., Ramona—Bd. Pub. Wks. approved $40,000 bonds to extend water system. U. G. Besett, pres.

Okla., Wirt—City preparing plans to install water system.

Idaho, Weiser—City plans to install new water and sewerage systems.

Wash., Ritzville—Northern Pacific Ry. plans to build 50,000-gal. redwood water-tank on concrete piers. H. E. Stevens, 5th and Jackson St., St. Paul, ch. engr.

Wash., Steilacoom—City voted $20,000 bonds to purchase and improve local water system.

Que., Granby—Council plans to improve water system. About $60,000. W. S. and R. S. Lea, 10 Cathcart St., Montreal, engrs.

Que., Matane—City soon receives bids for aqueduct. About $60,000.

Ont., Oshawa—Council having plans prepared for filtration system. About $40,000. W. G. Worden, engr.

Ont., Port Dover—City plans election in August to vote on $65,000 bonds to install water and sewerage systems. J. Sloan, clk.

Ont., Toronto—Council plans to install water mains in Kipling Ave. and 5th St. G. D. Scott, clk.

Alta., Calgary—City Comrs. received 2 reports from G. W. Craig, city engr., for improving water system, 1 is to run Elbow River pipe, 2-mi. up river, and install new intake to increase supply to 5,000,000 gal. clear water per day, cost, $111,000; other to build addition to present reservoir and install coagulation plant, cost $101,000.

BIDS DESIRED

N. Y., Brooklyn—Until June 4 by W. Williams, comr. water supply, gas and electricity, Room 2351 Municipal Bldg., New York City, furnishing, delivering and laying water mains and appurtenances in Atlantic, Highland, Manhattan, Neptune, Poplar, Seagate and Surf Aves., in grounds of Seagate Assn.

Pa., Titusville—(Official)—Until June 4 by W. M. Dame, city clk., furnishing pump at water-works; advertised in this issue. Noted Apr. 5.

W. Va., Madison—Until June 1 by Madison Utilities Co., recently incorporated, for plant, 100,000-gal. capacity, 30-hp. gas engine, 2 duplex pumps and reservoir, 80,000-gal. capacity. About $20,000. S. E. Brady, engr.

Mich., Niles—Until June 15 by Bd. Pub. Wks. for boring 4- and 6-in. well, guaranteed capacity of 55,000-gal. every 24 hrs. R. R. Hardy, clk.

O., Wadsworth—Until June 18 by Village installing filtration plant, 1,500,000-gal. capacity. About $30,000. F. W. Boyer, mayor. R. Buckley, engr.

Ind., Kendallville—(Official)—Until June 12 by O. E. Michaelis, city clk., improvements to water system; advertised in this issue.

Mich., Niles—Until June 15 by Pub. Wks. for installing 2000-ft. 8-in., 600-ft. 6-in., and 1350-ft. 4-in. c.i. water line, 950-ft. 12-in., and 1010-ft. 10-in. sewer.

B. C., Trail—Until June 6 by W. E. Monpenny, city clk., laying 27,300 lin.-ft. 4- to 12-in. steel water mains, necessary hydrants and valves, building 1,000,000-gal. distribution reservoir, works in connection with Violin Lake storage reservoir. A. L. McCulloch, Nelson, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. Y., Sherburne—Bd. Water Comrs. let contract auxiliary water-works to J. M. Holler, 513 Western Ave., Albany.

★N. J., Newark—Bd. St. & Water Comrs. let contract raising dam of Oak Ridge Reservoir to Heyman & Goodman, 15 Exchange Pl., Jersey City, $71,422. Noted May 10.

★N. C., Ft. Caswell—City let contract 9520-ft. submerged water pipe between Southport and Ft. Caswell to Noland-Clifford Co., Inc., Newport News, Va.; $29,432.

★La., Lafayette—City let contract 6- to 12-in. water mains to Central Foundry Co., Bessemer, Ala., $30,000.

O., Dayton—City received low bids pumping station on Germantown St., from C. Kelso, 1065 Reibold Bldg., $26,000.

★Ill., Casey—(Official)—City let contract water mains to T. A. Hardman, Olney, $14,300.

★Wis., Neillsville—City let contract 500-gal. per min. electric pumping unit, pressure filter plant ½-gal. per day capacity, to New York Continental Jewel Filtration Co., Harris Trust Bldg., Chicago.

★Minn., Staples—See "Reinforced Concrete."

★Kan., Tonganoxie—City let contract tank and tower for water-works to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago.

★N. D., Stanley—(Official)—City let contract installing water system to Empire Constr. Co., Minot, $33,000; sewerage system to G. Kemper, Minot, $11,000.

★Okla., Checotah—City let contract improving water-works to D. Tolbert, Drumright.

SEWERS

Proposed Work

Conn., Orange — (Official) — Town retained Palmer & Lynch, engrs., P. O. Box 4, West Haven, to make surveys for sanitary sewerage sysetm in Prospect Beach section.

N. J., Phillipsburg—Town soon lets contract installing sewage disposal plant and sewerage system. About $50,000. R. P. Howell, town engr.

Va., Norfolk—See "Streets and Roads."

Va., Richmond—See "Water-Works."

Ga., Swainsville—See "Water-Works."

La., Lafayette—City plans to install sewerage system. About $90,000.

O., Alliance—City plans to install sewers in East State and Keystone Sts., South Seneca Ave., alley east of Webb St., and portions Harrison St. W. Shidler, city engr.

O., Fostoria—City rejected bids installing sewers in Findlay St. New bids. C. A. Latshaw, city engr.

O., Lima—City retained G. W. Fuller, cons. engr., 170 Bway., New York City, to make surveys for improvement of sewerage system. C. Bryson, city engr.

O., Marion—City soon lets contract installing sewers between Boots and Gallatin Sts. from 15th to 26th St. T. E. Petrie, city engr.

Mich., Alma—City plans to install sewerage system. About $103,579.

Ia., Davenport—City plans to improve sewers in Oak, Rock Island and Valley Sts. About $100,000. J. W. Crowley, comr. pub. wks.

Minn., St. Paul—Council approved plans enlarging sewer on Otto Ave. and installing sewers in Otto, Lexington, Watson, Hamline and Pascal Aves., Niles and Juno Sts., and Edgecumb Rd. O. Claussen, city engr. Noted May 10.

Mont., Billings—See "Water-Works."

Ark., Stuttgart—City plans to install sewerage system in northern section to be known as Sewer Dist. No. 4. About $28,000.

Idaho, Weiser—See "Water-Works."

Cal., Los Angeles—City election June 5 to vote on $1,750,000 bonds to install outfall sewers, etc. H. Hamlin, city engr.

B. C., Trail—A. L. McCulloch, engr., estimates cost installing 5-mi. sewers at $37,200.

BIDS DESIRED

N. Y., Brooklyn—Until June 7 by L. H. Pounds, boro. pres., furnishinging all labor and materials required to construct sewers in portions of Ralph Ave., Aves. M and Q, Kings Highway, West 7th, West 9th, West 10th, East 14th, East 15th and East 60th Sts.; sewer basins on Logan St. and 17th Ave.

N. Y., New York—Until June 8 by M. M. Marks, boro. pres., for Contract No. 2, tunnel relief sewer and appurtenances in portion West 46th St. (readvertised).

N. J., Newark—(Official)—Until June 19 by Passaic Valley Sewerage Comrs., Essex Bldg., Clinton St., for furnishing and building three 60-kv.-a. engine-driven generating sets, complete with steam and exhaust, piping, switchboards, wiring and appurtenant work for Newark Bay Pumping station.

Sewers (Continued)

Pa., Mt. Pleasant—Until June 4 by Town for 1149-ft. 8-in. sewer in North Vine St., containing 4 manholes. A. A. Overholt, secy.

Va., Covington—Until June 4 by E. B. Butler, mayor, for extending sewerage system involving 8455 lin.ft. 12-, 15-, 18-, 24-, 30 and 6-in. terra cotta pipe, 80 specials, trenching and laying pipe, etc. C. P. Barnett, Savings Bank Bldg., engr.

Tenn., Cleveland—See "Streets and Roads."

O., Cleveland—Until June 7 by City installing sewers in portions Pratt and Euclid Aves., and East 119th St. R. Hoffman, city engr.

Mich., Niles—See "Water-Works."

Ia., Sioux City—(Official)—Until June 2 by C. Kloster, city clk., installing storm sewers in portions Nebraska and Pearl Sts. also 8-in. sanitary sewer portion South Fowler St. T. H. Johnson, city engr.

Minn., Warren—Until June 4 by J. R. Naeseth city recdr., for extension to present sewerage system.

S. D., Mitchell—Until June 4 by R. E. Davis, city aud., installing storm sewers in South Sanborn St., involving 768-ft. 18-in., vitr. sewer pipe, 732-ft. 15-in., 411-ft. 12-in., 530-ft. 10-in. branch "AV"; sanitary sewer in Mitchel Sewer Dist. No. 1, 366-ft. 10-in., vitr. sewer, 783-ft. 8-in., 3 manholes branch "AW" 2970-ft. 8-in., 7 manholes.

Okla., Wilburton—Until June 4 by City installing system of sanitary sewers and disposal plant. E. M. Cooper, mayor.

Ariz., Yuma—Until June 12 by S. F. Stanley, city clk., installing sanitary and storm sewers. About $30,000. E. W. Dahl, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract installing sewerage works, Spring St., Brook conduit, to West Roxbury Trap Rock Co., Boston, $11,236.

★**Mass., Boston**—Bd. Pub. Wks. let contract installing sewerage works in Atlantic Ave., Summer St. and Belcher Lane to M. H. Loomie, 73 Gibson St., Dorchester, $31,191.

N. Y., Long Island City—(Official)—Boro. received low bids sewers and appurtenances in (a) 48th St., (b) Park Ave., (c) Fulton St., (d) Forest Pkway., (e) Hancock St., (f) Albertis Ave., (g) Beaufort Ave., (h) Beach 130th St., (i) Beach 117th St., (j) Leggett Ave., (k) temporary drain in 72nd Ave., from Green Contr. Co., 734 Verona Ave., Astoria, (a) $11,198; (f) $21,989; (j) 2 sections, (1) $10,704, (2) $10,646; Murphy Bros., Montague St., Brooklyn, (b) $3099, (c) $15,240, (g) $2378; J. L. Sigretto, (c) $13,967, (f) $20,910, (j) $10,246; J. Kenmore, Contr. Co. (d) $15,413; Peace Bros., 20 Main St. Flushing (h) $200 (i) $1966, (k) 2 bids, $10,591 and $24,135, respectively. Noted May 10.

N. Y., New York—(Official)—M. M. Marks, boro. pres. received low bids alteration and improvement to sewer portion Madison Ave. from Riley Contr. Co., 150 Nassau St., $20,492.

★**Pa., Hazleton**—City let contract installing sewers in Diamond Ave., Arthur, Arlo Ruth, Grant, Peace, 17th and 19th Sts. to J. Corelli, $42,315.

★**O., Cleveland**—City let contract installing sewers in West 117th St. W. P. Gibbons Contr. Co., 340 Leader-News Bldg., $71,338; Ivanhoe Rd., River Constr. Co., 12109 Mayfield Rd., $27,015; West 110th St., J. Winterbottom, $20,525, Nottingham Rd., A. Morra, $27,606.

O., Greenville—City received low bids installing sewers in Sweitzer and Vine Sts. from Karch & White, Celina, $29,687 and $14,522 respectively.

★**Ind., South Bend**—City let contract installing Portage trunk sewer to Hoban & Roach, South Bend, $59,973; sewers in High and Erwin Ave. to T. H. Webster, South Bend, $29,605.

★**N. D., Stanley**—See "Water-Works."

STRUCTURAL STEEL

Proposed Work

Pa., New Castle—(Official)—Co. Comrs. rejected bids 219-ft. truss steel span over Neshannock Creek on Mill St. J. R. Lamoree, clk. Noted May 10.

S. C., Gaffney—Cherokee Co. Comrs., Gaffney, and York Co. Comrs., York, will let contract in June building inter-county bridge over Broad St. About $24,000.

Tenn., Knoxville—Comrs. authorized $150,000 bond issue to build viaducts and approaches J. B. Calla, city engr.

Tenn., Morley—Queen & Crescent Coal Co., Williamsburg, Ky., soon lets contract 70- to 80-ft. steel bridge over Hickory Creek. G. G. Croley, genl. mgr.

Wis., Prairie du Chien—Prairie du Chien & Wyalusing Bridge Co., recently organized, will build, maintain and operate toll bridge over Wisconsin River between Prairie du Chien and Wyalusing. About $50,000. J. S. Earll, pres.

Minn., Duluth—City to sell $50,000 bonds June 18 to repair bridges. A. Auger, clk.

Mont., Havre—Co. Comrs. plan to build steel bridge over Milk River. About $15,000.

Okla., Chandler—See "Streets and Roads."

Colo., Oroville—Great Western Power Co., 14 Sansome St., San Francisco, plans to build steel bridge over Feather River.

Wash., Mt. Vernon—County rejected bids improving Mt. Vernon Bridge over Skagit River, 220-ft. steel span and piers. About $23,000. New bids. W. R. Arges, co. aud. Noted Apr. 13.

Wash., Tacoma—A. Nicholson, city engr., prepared plans rebuilding East 21st St. bridge. About $10,000.

Ore., Coquille—County to issue $30,000 bonds to build bridge over Coquille River.

Cal., Alderpoint—A. Logan, co. surv., preparing plans steel highway bridge over Eel River. About $60,000. Address Co. Clk., Eureka.

BIDS DESIRED

R. I., Providence—Until June 6 by State Bd. Pub. Wks., building Wickford, Hamilton Mill, Hamilton Canal, New Shoreham and Elmwood Ave. bridges. About $175,000.

Ky., Jackson—Until June 4 by County for building steel bridge over Middle Fork Kentucky River. A. Russell, co. clk.

O., Burton—See "Streets and Roads."

O., Claridon—(East Claridon P. O.)—See "Streets and Roads."

O., Cleveland—(Official)—Until June 9 by Co. Comrs. building bridge No. 4017. E. G. Krause, clk.

Ill., Winchester—(Official)—Until May 19 by County building Mauvaisterre bridge, Rd. Dist. No. 7. B. McClure, clk.

Tex., Fort Worth—Until June 4 by W. E. Yancy, co. aud., for rebuilding 7th St. bridge. Address County Clk.

Ore., Salem—Until June 20 by County building steel bridge over Williamette River; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Westfield—(Official)—City received low bids Loomis St. bridge from L. J. Sieling, 211 Broad St., Red Bank, N. J., $10,445. E. B. Roberts Constr. Co., 21 North St. Pittsfield, $10,530; Woronoco Constr. Co., Gillett Blk., Westfield, $12,863.

★**N. J., Somerville**—(Official)—Somerset and Union Cos. let contract Norwood Ave. bridge to F. W. Schwiers, Jr., Co., 90 West St., New York City, $12,927; Bonnie Burns bridge to Villa Bros., Westfield, $1796.

★**Pa., New Castle**—(Official)—Co. Comrs. let contract bridges over Big Run and Coffee Run to F. S. Wilson, Kittanning, $16,000 and $2900 respectively. Noted May 10.

Pa., Phila—(Official)—W. S. Twining, dir. dept. city transit, 754 Bourse Bldg., received only bid, May 15, additional steel superstructure and appurtenant work to provide station platforms on Frankford Elevated Ry. at Huntington St. (Contract No. 520) from McClintic-Marshall Co., 1201 Morris Bldg., $59,923. Noted May 10.

★**Miss., Marietta**—See "Railways."

★**Miss., Port Gibson**—County let contract bridges to Virginia Bridge and Iron Co., Roanoke, $17,400. Noted Apr. 19.

★**Mich., Marquette**—County let contract steel bridges to Illinois Bridge Co., 53 West Jackson Blvd., Chicago, $10,000.

★**Ia., Montezuma**—County let contract 19 steel bridges and 8 culverts to Iowa Bridge Co., 712 Hubbell Bldg., Des Moines, $63,000.

★**Que., Montreal**—City let contract steel bridge to A. Pion, 1300 Papineau Ave., Montreal, $210,000. Noted May 17.

REINFORCED CONCRETE

Proposed Work

Pa., Phila.—(Official)—Dept. City Transit, 754 Bourse Bldg., cancelled letting of contract for concrete track floors, etc., will be readvertised. Noted May 10.

N. C., Wilmington—Cape Fear Packing Co., recently organized with $200,000 capital stock, soon receives bids 4-story, 60 x 180-ft. rein.-con. factory, for meat killing and packing machinery. G. H. Smith pres.

O., Niles—City preparing plans 382-ft. bridge to connect McDonald, involving 4000-yd. concrete and 100-tons structural iron. About $150,000. H. W. Turner, city engr.

Minn., Duluth—Co. Comrs. retained Duluth Engineering Co. 613 Palladio Bldg., to make plans building Fond du Lac bridge over St. Louis River, concrete and steel. About $40,000 to $50,000.

Minn., Warren—County receives bids in June building rein.-con. bridges. About $70,000 available. O. Lins, supt. highways.

Tex., Beaumont—Beaumont Iron Works Co., West Crockett St., plans 73 x150-ft. rein.-con. foundry. About $65,000. L. J. Black, pres.

Cal., Alturas—Nevada, California & Oregon R.R. plans rein.-con. office building and shops. About $125,000. W. T. Gould, Reno, ch. engr.

Cal., Bakersfield—J. M. Jameson plans rein.-con. garage. About $50,000.

Ont., London—C. Talbot, co. engr. preparing plans for rein-con. bridges. About $50,000.

BIDS DESIRED

Mass., Lawrence—(Official)—Until June 4 by Mayor and City Council for 2 rein.-con. bridges over Merrimac River; advertised in this issue.

Pa., Middlebury—(Official)—Until June 9 by Co. Comrs. building rein.-con. bridges over Dry Run. B. J. Moyer, clk.

Pa., Sunbury—(Official)—Until June 11 by A. Raker, co. controller, for rein.-con. bridge over Little Roaring Creek, Rush Twp., Northumberland Co., and Mayberry Twp., Montour Co.

Del., Elsmere—(Official)—Until June 7 by Bd. Town Comrs. building rein.-con. box culvert over Wilmington Ave. E. R. Faust, secy.

O., Canton—(Official)—Until June 20 by W. C. Schick, clk. co. comrs., new concrete arch bridge. Bethlehem Twp. Former bids rejected. Noted May 17.

O., Columbus—Until June 21 by J. Scott, clk. co. comrs., building rein.con. bridges on Reynoldsburg and New London Pike and W. Smith Rd., Plain Twp., also repairing bridge, Hard Rd., Perry Twp.

Ia., Toledo—(Official)—Until June 7 by Co. Aud. building 14 rein.-con. culverts and 2 I-beam bridges.

Minn., Luverne—Until June 19 by Town building 16 concrete culverts and bridge. C. Hough, clk.

Minn., Montgomery—Until June 4 by A. G. Bumford, city clk., building rein.-con. arch bridge, 63-ft. span, 18-ft. roadway.

S. D., Leola—Until June 5 by C. Wittmayer, co. aud., building 6 concrete and steel bridges.

S. D., Sioux Falls—Until June 4 by E. H. Shenkle, co. aud., rein.-con. outlet spillway for D. D. No. 1 and 2.

Ark., Wynne—See "Streets and Roads."

Cal., San Diego—Until June 18 by Bd. Supervs. building 2 rein.-con. Bridges on State Highway line.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—(Official)—Park Bd., Municipal Bldg., received low bids, concrete bulkhead along waterfront of Corlears Hook Park from P. J. Duffy, St. Ann's Ave., and 132nd St., $34,186; J. MacArthur Co., 22 Ormond Pl., Brooklyn, $34,334. Noted May 17.

★**N. J., Asbury Park**—City Comrs. let contract rein.-con. natatorium to I. R. Taylor & Co., Railroad Ave., $129,000.

★**Pa., Tonawanda**—(Official)—Co. Comrs. let contract rein.-con. deck girder bridge to L. Piolett & Son, Wysox. About $10,000. Noted May 10.

★**Ga., Tennille**—(Official)—City let contract rein.-con. water tower, 100,000 gal. capacity, concrete suction basin, 100,000 gal. capacity, and sewage-disposal tank to R. T. Aderhold, College Park.

O., Marietta—City received low bids rein.-con. reservoir from Merydith Constr. Co., 215½ 4th St., $70,850; Pitt Constr. Co., Fulton Bldg., Pittsburgh, $78,000; A. F. Morelock, Columbus, $114,000. Noted May 10.

★**O., Youngstown**—(Official)—County let contract 225-ft. rein.-con. or masonry bridge over Oak St. to N. R. Porterfield, Inc., 17 Battery Pl., New York City, $35,700. Noted May 4.

★**Wis., Milwaukee**—Holeproof Hosiery Co., 57-59 4th St., let contract rein.-con. addition to W. W. Oeslein, North Milwaukee, $200,000. Noted May 17.

★**Minn., Staples**—City let contract 200,000-gal. concrete reservoir to Circular Concrete Co., 100 Corn Exchange Bldg., Minneapolis.

★**Mo., Kansas City**—(Official)—City let contract rein.-con. girder bridge over Blue River on 50th St. to Union Bridge and Constr. Co., Sharp Bldg., $41,812.

★**Wash., Olympia**—City let contract rein.-con. bridge with 2 20-ft. spans to H. C. Malott, 6526 17th Ave., N. E., Seattle, $13,221.

★**Ore., Portland**—(Official)—Co. Comrs. let contract for 2 rein.-con. bridges Nos. 8 and 9 to Harb & Barnard, 910 Chamber of Commerce, $87,750. Noted May 4.

★**Cal., Visalia**—(Official)—County let contract building 9 concrete bridges to S. G. Smartt, Bakersfield, $23,185. Noted Apr. 19.

★**Que., St. Eugene L'Islet**—City let contract rein.-con. bridge to C. Fondreau, $77,500.

★**Sask., Saskatoon**—T. Eaton Co., Ave. D, N., let contract rein.-con. warehouse to Hazleton & Wallin, 303 Donalda Bldg., Winnipeg, $125,000.

STREETS AND ROADS

Proposed Work

Mass., Adams—Town appropriated $30,000 for relocation, concrete pavements and sidewalks on Columbia St. H. C. Neff, 1st Natl. Bank Bldg., engr.

R. I., Providence—Water Supply Bd. soon lets contract 3.4-mi. new highway in town of Foster, involving 20,000 yd. earth and 1600 yd. rock work.

N. J., Trenton—City soon receives bids paving 3709 sq.yd. sheet asphalt, 5-in. concrete base. About $15,000. A. Swan, city engr.

Va., Norfolk—City plans election to vote on $15,000 bonds to pave and install sewers in various streets. W. H. Taylor, Jr., city engr.

Va., Richmond—See "Water-Works."

W. Va., Hamlin—County lets contract in June building 82-mi. permanent road, 14- or 16-ft. wide. A. F. Black, clk. Noted May 17.

W. Va., Point Pleasant—County voted $150,000 bonds to pave roads in Lewis Dist., asphaltum, brick, concrete, macadam, stone block or other material.

N. C., Jacksonville—County voted $40,000 bonds to build links of Kinston-to-Swansboro Highway. Swansboro and White Oak Twps.

N. C., Lillington—County voted $15,000 bonds to build roads, Lillington Twp.

N. C., Morganton—Co. Comrs. plan to issue $105,000 bonds to build roads. J. R. Howard, clk.

N. C., Rutherfordton—County election June 12 to vote on $20,000 and $15,000 bonds to build roads in Colfax and High Shoals Twps. J. D. Hull, clk. of bd.

Fla., Lakeland—City plans to issue $80,000 bonds to improve streets. J. F. Cox, mayor.

Fla., Perry—City voted $45,000 bonds to pave streets.

Ala., Montgomery—(Official)—County rejected bids for 10,000 cu.yd. gravel at intersection of Long and Orion and Dubin Rd., 10,000 cu.yd. near Olustee Creek. T. H. Edwards, co. engr. Noted May 10.

Ala., Selma—(Official)—City rejected bids paving streets. About $75,000. New bids. W. O. Crisman, city engr. Noted May 10.

Miss., Biloxi—County plans to build 2-mi. road from corporation limits of Biloxi to Porter Ave. Address County Clk., Gulfport.

Miss., Hattiesburg—Bd. Supervs. plan to build 46-mi. road. About $81,694.

La., Colfax—Bd. Supervs. Rd. Dist. No. 3 sold $150,000 bonds to build portion Jefferson Highway. W. A. Brownlee, pres.

La., Slidell—Town plans election to vote on $100,000 bonds to pave streets and install waterworks and drainage system.

Tenn., Knoxville—City Comrs. authorized $800,000 bond issue to improve streets. J. B. McCalla, city engr.

Ky., Morganfield—City prepared plans paving, sidewalks and gutters on Spaulding St. N. O. Orcutt, city engr.

Ky., Shelbyville—City rejected bids paving streets, brick. New bids, concrete, wood block and brick.

O., Cambridge—County soon lets contract building 2-mi. tar macadam road and 3.5-mi. grading and culverts in Valley Twp. About $40,000. Noted Apr. 26.

O., Cincinnati—City plans to pave and improve portions Seegar, Haven, Dryden, Scitio and Corbin Sts. F. Krug, city engr.

O., Cleveland—City plans to repave portion St. Clair Ave. R. Hoffman, city engr.

O., Cleveland—City plans to repave and improve portions West 25th and Chester Sts. R. Hoffman, city engr.

O., Columbus Grove—Town to sell $31,000 bonds to improve Main and High Sts.

O., Findlay—County to sell $81,150 bonds June 16 to improve roads.

O., Mt. Gilead—(Official)—County sold $107,515 bonds to improve Mt. Gilead-Iberia and Penlan Rds. C. O. Higgins, co. aud. Noted May 10.

Ind., Plymouth—County plans to spend $125,000 to improve roads. A. W. Thomson, co. surv.

Mich., St. Johns—County plans to build 6-mi. road in Essex Twp. E. G. Hulse, co. engr.

Ill., Forest Lake—City plans to improve Western Ave., Green Bay and Sherman Rd. J. Anderson, Jr., city engr.

Ill., Springfield—City soon lets contract paving 101,000 sq.yd. Wade D. Seeley, city engr.

Wis., Baraboo—Town plans to build 2½-mi. concrete road from high bridge to Devils Lake. About $40,000.

Wis., Chippewa—Co. Comrs. plans 28½-mi. highway from Cadott to Cornell and Holcomb; 15½-mi. from city limits to connect with road to Colfax. W. N. Herbert, co. aud.

Neb., Superior—City soon lets contract paving 23 blocks, involving 27,678 sq.yd. asphaltic concrete and 18,941 lin.ft. curb and gutter. Noted Apr. 26.

S. D., Chamberlain—County plans to build 100-mi. road. E. Hinegar, clk.

Mo., Kansas City—City soon lets contract paving portions Paseo St. and Meyer Blvd. C. Hill, city engr.

Mo., Nevada—County election June 4 to vote on $30,000 bonds to build roads in Center Twp.

Ark., Newport—County plans to build gravel road from Newport to Grubbs, 15-ft. roadway, concrete curbing, Rd. Improv. Dist. No. 1. R. B. Hooker, interested.

Ark., Waldron—Co. Comrs. authorized $100,000 bond issue to improve roads in Dist. No. 1.

Tex., Claude—County plans to grade roads. E. C. Clayton, clk.

Tex., Crosbyton—County issued $60,000 bonds to build roads in Dist. No. 1.

Tex., Dallas—City soon lets contract paving Jefferson Ave. About $250,000. Moseley, city engr.

Tex., Huntsville—County voted $150,000 bonds to build roads in Huntsville, Dodge, Riverside, Phelps and Bath Dists.

Tex., Jourdantown—County voted $30,000 bonds to improve roads in Dist. No. 3.

Tex., Pittsburgh—County defeated $35,000 bonds to build roads in Precinct No. 2. J. L. Turnage, clk. Noted Apr. 26.

Tex., Sherwood—County plans to improve 60-mi. road. O. A. Carr, co. clk.

Okla., Ada—(Official)—County receiving bids about July 1, building 150-mi. hard surfaced roads. I. R. Gilmore, co. comr. Noted May 10.

Okla., Chandler—County election June 5 to vote on $25,000 bonds to build roads and bridges in Creek Twp.

Okla., Frederick—City plans to pave 6 mi. streets.

Okla., Okemah—County plans to spend $98,000 to improve roads in 4 townships. W. H. Patterson, co. engr.

N. M., Clovis—County plans to build 100-mi. road. F. A. Cook, co. engr.

Ariz., Florence—County to sell $150,000 bonds June 12 to build roads and bridges. C. H. Neimeyer, clk. W. W. Lane, co. engr. Noted May 4.

Ariz., Holbrook—County voted $160,000 bonds to build roads.

Ore., Ashland—State Highway Dept. soon lets contract paving and improving portion Siskiyou Highway. About $65,000 available.

Ore., Salem—Council plans to pave Portland Rd., et. al., 5th St., et al., Church St., et. al. and D St., et. al. asphaltic concrete. W. Skelton, city engr.

Cal., Riverside—Bd. Supervs. appropriated $70,000 toward share building state highway from Indio to Brawley.

Ont., Orangeville—County plans to spend $50,000 to build roads, crushed stone and bituminous binder.

Ont., Toronto—Works Com. plans to pave streets, asphalt and concrete. About $185,000. T. McQueen, secy.

BIDS DESIRED

N. Y., Brooklyn—Until June 7, by L. H. Pounds, boro. pres., regulating, curbing and laying sidewalks on portions Albermarle Rd., Rockaway Pkwy. and Ave. T; regulating and paving with permanent asphalt pavement on 6-in. concrete foundation, Albermarle and Beverly Rds., West 33rd and 77th Sts.; regulating and repaving with permanent Grade 1 granite pavement on 6-in. concrete foundation portion West Ave. and F St., regulating and restoring pavement of Chauncey St.

N. Y., New York—Until June 7 by C. Ward, pres. park bd., Municipal Bldg., furnishing materials and labor necessary for repaving cement walks of small parks.

N. Y., Staten Island—Until June 4 by C. D. Van Name, boro. pres., St. George, New Brighton, constructing concrete sidewalks on portions Davis and Pommer Aves.

N. J., Belvidere—Until June 19 by Bd. Freeholders paving Washington-Oxford Rd.

N. J., Camden—(Official)—Until June 11 by E. E. Stafford, chn. rd. com., resurfacing Browning Rd. from Kaighn Ave. to Collings Rd., about 2.53 mi.; advertised in this issue.

N. J., Hackensack—Until June 6 by Bd. Freeholders improving various roads in county. J. M. Harkness, clk.

N. J., New Brunswick—Until June 18 by Bd. Freeholders improving Sect. No. 2, Colonia-Avenal Rd. A. B. Fox, 137 Smith St., Perth Amboy, co. engr.

N. J., Trenton—Until June 7 by City Comn. for surfacing walks in Mahlon Stacy Park and treating roads in Cadwalader Park with asphaltic oil surface. A. Swan, Jr., city engr.

N. J., Weehawken—Until June 6, by Town Council, West New York, improving Bergenline Ave. C. Swensen, clk. Noted May 17.

Pennsylvania—(Official)—Until June 12 by State Highway Comn., Harrisburg, for rebuilding 32,923 lin.ft. vitr. block and rein.-con. pavement, 16 ft. wide, Jackson and East Taylor Twps., Cambria Co. F. B. Black, comr.

Del., Wilmington—(Official)—Until June [illegible] by J. Wilson, co. engr., for building hillside brick pavement, concrete base, 1900 sq.yd. and concrete curb, 1400 lin.ft. on approaches of River Front Bridge.

Md., Baltimore—Until June 6 by city paving portions McElderry, Madison, Jackson and St. Matthews St., Contract No. 151, involving 1,270 sq.yd. sheet asphalt, 1480 sq.yd. vitr. block and 105 sq.yd. granite block repaving; portions Covington, Sanders, Raborg and Smith Sts., Contract No. 152, involving 9190 sq.yd. sheet asphalt and 1450 sq.yd. vitr. block. R. Keith Compton, 214 East Lexington St., chn. and engr. paving com. R. M. Cooksey, city engr.

W. Va., New Cumberland—(Official)—Until June 2 by County building 12-mi. concrete or brick road. C. E. Grafton, engr.

Ga., Atlanta—(Official)—Until June 16 by City paving 100,000-sq.yd. and 50,000-yd. gutter on portions Bowen St., clay bound or penetration macadam, Brady and Ashby Sts., Peachtree and Gordon Rds., Lakewood Park Driveways, concrete, vitr. brick, bituminous concrete, bituminous macadam or patented pavement such as bitoslag, bitulithic, vitrolithic, etc. Address C. M. Holland, 507 Court House.

Ala., Linden—(Official)—Until June 4 by Co. Comrs. repairing 5-mi. gravel road and building 2-mi. extension to same. D. G. Wilkinson, co. engr.

Ala., Troy—Until June 12 by City paving 29,500 yd., brick. M. D. Pace, city engr. Noted Apr. 19.

Miss., De Kalb—(Official)—Until June 4 by W. Jonas, secy. rd. comn., building 10-mi. road, sand-clay surface, also 120,000 cu.yd. excavation, Dist. No. 2. Noted May 10.

Miss., Hattiesburg—(Official)—Until June 5 by J. K. Denham, co. highway comr., for improving 45.8 mi. on Hattiesburg-Richton Rd., Hattiesburg-Eatonville Rd., Hattiesburg-Brooklyn Rd. and Brooklyn Bond Road. H. Gillis, chancery clk.

Miss., Meridan—Until June 5 by C. W. Schamer, chn. good rd. comn., paving 45,000 sq.yd. Causeyville Rd., 25,000 sq.yd. Poplar Springs Rd., 18,000 sq.yd. Asylum Rd. with bituminous material. J. T. Pinkerton, engr.

Miss., New Augusta—Until June 6 by C. C. Dearman, co. clk., building 114 mi. sand-clay roads. H. W. Bell, Laurel, engr. Noted May 24.

Miss., Raymond—(Official)—Until June 4 by Bd. Supervs. grading and graveling Byram and Raymons cross road, Wiggans Rd., Terry, Pine Grove and Canton extensions. W. W. Downing, clk.

Tenn., Cleveland—Until June 15 by City paving 51,000 sq.yd. asphalt, asphaltic concrete, cement concrete or other type, also grading, curbing and installing storm sewers, etc. S. D. Newton, city engr.

O., Burton—(Official)—Until June 6 by Town Trustees, improving Sect. A, Burton-Claridon Rd., grading roadway, concrete pavement building bridges and culverts, cost, $19,536; alternate bids grading roadways, bituminous macadam pavement, building bridges and culverts; cost, $18,899.

O., Cincinnati—Until June 6 by City paving, grading, curbing, building drains, inlets and installing 6-in. water mains in portions Arch St. F. Krug, city engr.

O., Claridon—(East Claridon P. O.)—(Official)—Until June 7 by Town Trustees improving Sect. B, Burton-Claridon Rd., grading roadway, concrete pavement, building bridges and culverts, cost, $26,265; alternate bids grading roadways, bituminous macadam pavement, building bridges and culverts, cost, $25,249.

O., Dayton—Until June 14 by W. H. Aszling, clk. co. comrs., paving 2-mi. Wolf Creek Pike, brick.

O., Defiance—Until June 5 by Co. Comrs. improving, grading and paving Farmer-Mark Rd., Sect. B, Improv. No. 30, Farmer Twp. cost, $43,849; 28,466 lin. Auburn-Defiance Rd., I. C. H. No. 426, Improv. No. 38, Farmer and Washington Twps., cost, $76,470. R. Daoust, clk.

O., Defiance—Until June 5 by R. Daust, clk. co. vomrs. building Independence Rd., Improv. No. 44, Harris Rd. Improv. No. 13, Farmer Twp., water-bound macadam; 3-mi. Farmer Mark Rd., Farmer Twp., cost, $44,000; Auburn-Defiance Rd. No. 39, cost, $76,000.

O., Lebanon—(Official)—Until June 6 by Bd. Comrs. grading, paving and curbing portions, 11th, 5th and Kanawha Sts., alley between 8th Ave. and C. & O. Ry., Virginia and Washington Aves., 3rd and 4th Aves., also installing sewer in portions alley between Monroe and Jackson Aves., Jefferson Ave and B. & O. R.R., Sect. A Charleston and Kanawha Aves., Sect. B, Charleston to 10th Aves., Sect. C, Charleston to 10th Aves. A. B. Maupin, city engr.

O., Orrville—(Official)—Until June 27 by A. Jenny, village clk., improving portion South Main St. Former bids rejected. Noted May 17.

Indiana—By Co. Comrs. for building roads as follows: June 4: Brownstone, tarvia macadam road, Carr Twp., native gravel road, Owen Twp. A. Leudtke, aud. Rushville: Crushed

Streets and Roads (Continued)

stone roads Center and Jackson Twps., W. H. McMillin, aud. Tipton, gravel road, Cicero Twp., O. Vanness, aud. Bloomington, roads in North East, Orlean, Perry Rickland, Bloomington Twps. H. Blakely, aud. Cannelton: Macadam road, Tobin Twp. M. C. Conway, aud. Shoals: Roads in Mitcheltree and Center Twps.; completion roads Perry and Center Twps. L. D. Haga, aud. South Bend: 3 gravel roads, Penn Twp. A. Wolf, aud. June 5: Plymouth, slag and gravel roads, Walnut Twp. and Center-Walnut Twp. line. O. H. Weber, aud. Corydon: Stone road, line Spencer, Scott and Harrison Twps. S. C. Mauch, co. aud. Crawfordsville: Gravel road, Ripley Twp. W. F. Batman, M. D., aud. Covington: Stone and gravel road, Jackson Twp. H. W. Nevlin aud. June 6: Columbus, 12,950-ft. gravel road, Jackson Twp. W. H. Scott aud. June 7: Laporte, roads in Center and New Durham Twps. F. A. Hausheer, aud.

Ind., Rushville—(Official)—Until June 5 by City paving 3rd Ave., brick, wood block, concrete or asphalt, also oiling all streets in city. A. L. Stewart, engr.

Mich., Ionia—(Official)—Until June 5 by D. M. Steele, city clk, paving portion East Main St., brick.

Minn., Pine City—Until July 1 by County building highway from Rock Creek to Sturgeon Lake. About $160,000, part of cost to be borne by Federal Government.

Minn., Thief River Falls—Until June 12 by City for building cement walks. A. H. Fasel, city engr.

Neb., Fairbury—(Official)—Until June 6 by R. A. Davis, city clk., paving streets. Bonds for $50,000 voted for work. Grant & Fulton, Lincoln, engrs.

N. D., Ft. Ransom—Until June 18, paving bridge over Cheyenne River. C. E. Best, Lisbon, co. aud.

Mo., Kansas City—Until June 6 by Bd. Park Comrs. paving 137,600 yd. on various boulevards. T. C. Harrington, secy.

Ark., Wynne—(Official)—Until June 15 by Comrs. Rd. Improv. Dist. No. 1 for 18½-mi. gravel road with necessary concrete and pile bridges; advertised in this issue.

Ariz., Florence—Until June 12 by Clk. Bd. Superv. for road work. About $150,000. W. W. Lane, co. engr. Noted May 4

Washington—Until June 11 by State Highway Comn., Olympia, clearing, grading, draining 5.6 mi. Olympia Highway. J. Allen, highway comr.

Wash., Seattle—Until June 11 by Co. Comrs. for building 5-mi. brick highway between Bellevue and Houghton.

Wash., South Bend—Until June 8 by Co. Comrs. for clearing, grubbing, grading, draining and placing gravel macadam surface on portion permanent highway No. 3-B and clearing, grubbing, grading, draining 1½ mi. Willapa-Momohon Landing Rd., also ¾ mi. Menlo-South Fork Rd. C. S. B. Henry, co. engr.

Ore., Coquille—(Official)—Until June 7 by County building portion Coquille-Myrtle Point section of Coos Bay-Roseburg Highway. L. W. Oddy, clk.

California—(Official)—Until June 4 by State Highway Comn., 515 Forum Bldg., Sacramento, improving roads in counties as follows: grading 11.2 mi., Shasta Co.; paving 6.6 mi., Tulare Co.; from southern boundary to Earlimart and 5.9 mi. from Earlimart to Pixley, Los Angeles Co., 10.6 mi. from Seeley's Ranch to Action, portland cement concrete. A. B. Fletcher, highway engr.

Cal., Sacramento—(Official)—Until June 5 by Bd. Supervs., grading and paving, Highway No. 1, Marysville Rd. R. E. Callahan, clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Maine**—(Official)—State Highway Comn., Augusta, let contract building roads as follows: Gravel surfacing 2.67-mi. road Noblesboro Twp. to A. Williams & Co., Boston, $19,471; gravel surfacing 1.46-mi. road Edmunds Twp. to A. Williams & Co., Boston, $15,649; 1.38-mi. bituminous macadam road Oakland Twp. to Small & Ingalls, Bar Harbor, $22,083; 1.84-mi. gravel or bituminous macadam road Waterville Twp. to J. H. Kerr, Rumford, $16,783 or $29,244

Maine—(Official)—State Highway Comn., Augusta, received low bid building 1.33-mi. gravel road, Greenwood Twp., from M. Lavorgna, Canton, $13,088; 1.98-mi. bituminous macadam road, Falmouth Twp., from Forglone & Romano Co., Portland, $33,328.

★**Mass., Grafton**—State Highway Comn. let contract paving 10,700 ft. asphalt road to R. H. Newell, Uxbridge.

Mass., Hingham—Massachusetts Highway Comn. received low bids building bituminous road from G. E. Greenough, South Action, $38,667; R. F. Hudson, Melrose, $42,571; W. F. Loud, & Son Co., Quincy, $40,222.

★**Connecticut**—State Highway Comn., Hartford, let contract paving Thomaston-Hartford trunk line road, Bristol and Plainville Twps., to Connecticut & Rhode Island Co., Hall and Lewis Bldg., Meriden, about $56,500; 5400 lin.ft. Topeka pavement, Plymouth Twp. (Terryville, P. O.) to Lane Constr. Corp., 37 Colony St., Meriden. Cost about $25,660 to be borne by state, $12,000 by Bristol & Plainview Tramway Co.; $8200 by Plymouth Twp.; 9234 lin.ft. Topeka pavement, concrete base Waterbury and Naugatuck Twps., to Eastern Asphalt Paving Co., 280 B'way, New York City. About $45,000.

★**Conn., Bristol**—City let contract building sidewalks to D. F. Crowley, 192 Main St, $30,000.

Conn., New London—City received low bid paving 6300 sq.yd., brick, from Maher & Sprague, 185 Church St., New Haven, $27,342.

★**Conn., Suffield**—City let contract 1¾-mi. highway to L. C. Fay & Co., Inc., 318 Main St., Springfield, $25,000.

N. Y., Brooklyn—(Official)—L. H. Pounds, boro. pres., received low bids paving Surf and 17th Aves. from Borough Asphalt Co., 1301 Metropolitan Ave., $14,419 and $12,314 respectively. Noted May 17.

★**N. Y., Niagara Falls**—City let contract paving various streets and sidewalks to M. D. Cutini, 1134 Garden Ave.

★**N. J., Bayonne**—(Official)—Bd. Comrs. let contract improving portion Garretson and Trask Aves., 6th, 29th, 1st, 52nd, 28th, Cooper and Agnes Sts. to W. T. Crichfield, 2 Greene St., Jersey City. Noted Apr. 19.

★**N. J., Bound Brook**—City let contract paving 11,400-sq.yd. Main St. to S. Sampson, 902 Bond St., Elizabeth, $36,138. Noted May 17.

N. J., Newark—Bd. Pub. Wks. received low bids repaving portion Springfield Ave. from Atlas Contr. Co., Essex Bldg., $23,579, Newark Paving Co., 133 1st St., $24,076; R. Sangiovanni, 80 Hoyt St., $24,162; portion White Terrace Northern Constr. Co., Wiss Bldg., Newark, $5801; Standard Bitulithic Co., Essex Bldg., $5864. Noted May 10.

★**Pa., Monessen**—Monessen Park Land Co. let contract paving streets and sidewalks to Donora Constr. Co., Donora, $20,000.

★**Pa., Northampton Heights**—Boro. let contract paving 4th St. to R. S. Rathborne, Hunsicker Bldg., Allentown, $40,000.

★**Pa., Scranton**—(Official)—County let contract repairing roads to R. C. Ruthven, Carter Blk., $1 per yd. concrete base, $1.10 per yd. asphalt top. Noted May 10.

★**Maryland**—(Official)—State Highway Comn., 601 Garrett Bldg., Baltimore, let contract paving state-aid highway to Juniata Co., Empire Bldg., Philadelphia, $11,297.

★**W. Va., Clarksburg**—(Official)—County let contract 3.3 mi. Shinn Rd. and 1 mi. Mudlick Run to Atlantic Bitulithic Co., Virginia Railway & Power Bldg., Richmond; 1 mi. Fairmont & Clarksburg Pike and ½ mi. Clarksburg & Weston Pike to Allen & Horner, Clarksburg. Noted Apr. 19.

★**W. Va., Fayetteville**—County let contract building roads to Carey-Reed Co., Lexington, Ky., $160,000.

★**Fla., Lakeland**—(Official)—City let contract paving 12 mi. streets, asphalt, to Alabama Paving Co., American Trust Bldg., Birmingham, $176,000. Noted Apr. 26.

★**Miss., Greenwood**—Bd. Supervs. let contracts building roads to Kane-Kelly Constr. Co., New Orleans, $34,467, and McTighe-Hewey Co., Hazelhurst, $311,281.

★**La., New Orleans**—(Official)—B. Buil, state highway engr., let contract building 13.68-mi. Crowley-Jennings Rd., gravel, to Perry & Bonner, New Orleans, $51,219. Noted May 3.

★**Tenn., Knoxville**—City let contract resurfacing 26,900 sq.yd. Market and Walnut Sts., Commerce, Wall, Asylum and Depot Aves. to Murray Constr. Co., Holston Natl. Bank Bldg., Knoxville, $41,590. Noted Apr. 19.

★**Tenn., Wartburg**—Co. Comrs. let contract building roads to Carr Contr. Co., Harrison. About $200,000.

Ohio—State Highway Dept., Columbus, received low bids, May 17, for road improvements as follows: Butler Co., Sect. "A," Carthage-Hamilton Rd., bridges and culverts, grading roadway and paving with reinforced concrete, 5.97 mi., Federal Asphalt Co., Hamilton, $113,000; T. J. Connell, Cambridge City, Ind., $126,029; Sherridan & Kirk Constr. Co., Portsmouth, $155,305. Clinton Co., Sect. "B," Wilmington-Xenia Rd., new concrete bridge, Richelderfer Constr. Co., Circleville, $8823. Champaign Co., Sect. "P-2," Urbana-West Jefferson Rd., grading roadway and paving with macadam, 0.27 mi., Sheedy & Hannigan, Urbana, $3627; J. C. McCann & Son, Columbus, $3492. Clinton Co., Sect. "G," Cincinnati-Chillicothe Rd., grading roadway and paving with waterbound macadam, 0.48 mi., W. N. McKay, New Burlington, $4093. Fairfield Co., Sect. "M-2," Cincinnati-Zanesville Rd., bridges and culverts, grading roadway and paving with one of following types: T. Vogelsburg, London, bituminous (asphalt A-1C) macadam, $53,890; H. F. Hampshire, Circleville, bituminous (asphalt A-1) macadam, $52,385, waterbound macadam, $42,155; O. M. Junk, Chillicothe, bituminous (tar) macadam, $49,981, waterbound macadam, $42,158. Fayette Co., Sect. "J," Springfield-Washington Rd., culverts and grading roadway and paving with waterbound macadam, 2.97 mi., F. Walz, Columbus, $23,409. Hancock Co., Sect. "G," Lima-Sandusky Rd., new abutment and steel bridges, Brookville Bridge Co., Brookville, $5634; H. L. Vander Horst, Kalamazoo, Mich., $7350. Harrison Co., Sect. "N," Cadiz-Carrollton Rd., bridges and culverts, grading roadway and paving with waterbound macadam, 3.01 mi., Coss & Myer, Wheeling, W. Va., $37,854. Holmes Co., Sect. "C-1," Navarre-Berlin Rd., bridges and culverts, grading roadway and paving with monolithic brick on concrete base, 1.18 mi., Holmes Constr Co., Millersburg, $26,800; Sect. "K," Millersburg-Mansfield Rd., bridges and culverts and grading roadway, 2.18 mi., J. D. Gillespie, LaRue, $14,937; R. C. Rousch, Canton, $15,488. Jackson Co., Sect. "H," Jackson-Ironton Rd., Contract No. 1, bridges and culverts, grading roadway and paving with brick on concrete foundation, 1.14 mi., McCoy & Keller, Jackson, $28,607; Contract No. 2, bridges and culverts, grading roadway and paving with brick on concrete foundation, 0.20 mi., McCoy & Keller, Jackson, $3471. Richland Co., Sect. "E," Ganges-Plymouth Rd., bridges and culverts, grading roadway and paving with bituminous macadam, 2.33 mi., Forest Constr. Co., Forest, $44,871; M. Gledhill, Galion, $44,973; Latshaw & Stinchcomb, Fostoria, $45,748. Sandusky Co., Sect. "L," Fremont-Bellevue Rd., drainage structures, grading roadway and paving with brick, 0.76 mi., C. Stutz, Bellevue, $25,578; Modern Constr. Co., Fremont, $29,616; Croghan Constr. Co., Fremont, $30,797; Sect. "R," Fremont-Bellevue Rd., drainage structures, grading roadway and paving with brick, alternative bids will also be received on constructing drainage structures, grading roadway and paving with semi-monolithic brick, 0.42 mi., Lee Bros. & Petticord, Clyde, $10,468; Sect. "Q," Sandusky-Clyde Rd., drainage structures, grading roadway and paving with brick, with mastic filler, 0.68 mi., Lee Bros. & Petticord, Clyde, $15,982; Sect. "B," Fremont-Bowling Green Rd., drainage structures, grading roadway and paving with brick, 0.72 mi., Croghan Constr. Co., Fremont, $20,437; Zeigler & Reardon, Fremont, $20,821. Vinton Co., Sect. "H," McArthur-Logan Rd., bridges and culverts, grading roadway and paving with waterbound and bituminous macadam, 2.47 mi., E. C. Radebaugh, Logan, $35,984. Warren Co., Sect. "B," Morrow-Lebanon Rd., bermes and ditches and paving with waterbound macadam, 4.47 mi., J. K. Spencer, Oregonia, $14,031. Wayne Co., Sect. "O," Wooster-Akron Rd., bridges and culverts, grading roadway and paving with monolithic brick on concrete foundation, 2.5 mi., Hart & Kemp, Elyria, $44,845. Athens Co., Sect. "H," Logan-Athens Rd., surface treating with tar, 1.90 mi., Barrett Co., Cleveland, $1470. Cuyahoga Co., Sect. "J," "G-1" and "G-2," Cleveland-Medina Rd., surface treating with cold oil; length of Sect. "J" 1.24 mi., "G-1," 4.54 mi., and "G-2," 3.97 mi.; Standard Oil Co., Cleveland, $1144; Atlantic Refining Co., Columbus, $1373. Harrison Co., Sect. "A," Dennison-Cadiz Rd., surface treating with tar, 2.74 mi., Barrett Co., Cleveland, $2699. Hocking Co., Sect. "A" and "J," Logan-Athens Rd., surface treating with tar; length of Sect. "A" 9850 ft., Sect. "J," 10,803 ft.; Barrett Co., Cleveland, $3604; Sect. "C," Logan-Chillicothe Rd., retaining wall and riprap, Shaw & Price, Logan, $1475; Petrie & Haynes, Logan, $1484; Huston & Henderson, Logan, $1494. Jackson Co., Sect. "G," I. C. H., Sect. "I," I. C. H., Sect. "F" and "J," I. C. H., in Jefferson, Milton and Lick Twps., surface treating with oil, Atlantic Refining Co., Columbus, $6237. Jefferson Co., Sect. "D" and "E," Canton-Steubenville Rd., surface treating with tar, 4.02 mi., Barrett Co., Cleveland, $3603. Lorain Co., Sect. "E" and "A," Huntington and Wellington Twps., surface treating with bituminous material, Atlantic Refining Co., Columbus, $3813. Lucas Co., Sect. "A," Toledo-Detroit Rd., patching and surface treating, 2.2 mi., Barrett Co., Cleveland, $1865; Sect. "G," Toledo-Wauseon Rd., patching and surface treating, 4.7 mi., $3683; Sect. "E," "F," "G," "H," "P" and "J," Toledo-Angola Rd., patching and surface treating, 15 mi., $13,930; Sect. "F," Toledo-Napoleon Rd., applying surface treatment, 2 mi., $950; Sect. "A," Jerusalem Rd., patching, surface treating and building new top course over small portion, 5 mi., $7092. Medina Co., Sect. "B," "C" and "H," Cleveland-Wooster Rd., surface treating with bituminous material, 2.02 mi., Atlantic Refining Co., Columbus, $1359; S. H. Roher, Seville, $1363. Ottawa Co., Sect. "E," Fremont-Port Clinton Rd., grading shoulders and paving with bituminous macadam, 2.4 mi., Pearson & Welsch, Fremont, $16,249; Gray Bros., Bowling Green, $17,013; Sect. "D," Oak Harbor-Genoa Rd., surface treating with tar, 3.56 mi., Muldoon & Bergman, Genoa, $2194; Barrett Co., Cleveland, $2195. Perry Co., Sect. "K," I. C. H. No. 356, and Sect. "A," I. C. H. No. 354, Reading, Hopewell and Pike Twps., surface treating with tar, length of Sect. "K" 6763 ft., Sect. "A," 5973 ft., Barrett Co., Cleveland, $2571. Seneca Co., Sect. "E," I. C. H. No. 199, and Sect. "O," I. C. H. No. 271, surface treating with cold oil, length of Sect. "E" 8400 ft., Sect. "O," 8366 ft., I. C. H. No. 272, Sect. "G," I. C. H. No. 22, Sect. Atlantic Refining Co., Columbus, $1333; H. W. Curry Co., Eaton, $1341; Sect. "I," I. C. H. No. 449, Sect. "H," I. C. H. No. 267, Sect. "D,"

Streets and Roads (Continued)

"F," I. C. H. No. 22, and Sect. "N," I. C. H. No. 22, surface treating with oil, length of Sect. "J" 5260 ft., Sect. "H," 16,835 ft., Sect. "D," 1 mi., Sect. "G," 8900 ft., Sect. "F," 6615 ft., Sect. "N," 1336 ft., Barrett Co., Cleveland, $6984. Union Co., Sect. "A," Richwood-Larue Rd., widening present paving with waterbound macadam and resurfacing old and new paving with bituminous macadam, alternative bids were also received, 2.18 mi., S. Gaughman, Marysville, $16,126, alternative bid, $16,127; L. L. Aller, Larue, $16,966, alternative bid, $16,966; Glendell & Huston, Richwood, $17,103, alternative bid, $17,103 Van Wert Co., Sect. "C" and "D," Van Wert-Rockford Rd., surface treating with tar, 3.01 mi., Putman & Shindiedecker, Van Wert, $3463.

★**O., Blanchester**—Village let contract improving roads, macadam, to W. N. McCay.

★**O., Bremen**—City let contract paving and grading Walnut St. and Purvis Ave. to Coshocton Constr. Co., Coshocton, $21,000.

★**O., Canton**—County let contract paving various streets to C. L. Stoner, Massillon; H. Corl, 809 7th St., Highway Constr. Co., Elyria.

★**O., Cincinnati**—Co. Comrs. let contract repairing Harrison and New Haven Pike, and Hamilton and Cleveland Pike to Nugent & Hines, Cleves, $15,126 and $6461 respectively; building retaining walls on Wesselmann Rd. to M. Hanlon, Cleves, $8846.

★**O., Jefferson**—County let contract paving and curbing Forest and Cherry Valley Rd. to T. B. Fitzgerald, Ashtabula, $63,000.

★**O., Toledo**—County let contract paving 15 mi. waterbound and concrete macadam roads to Doan & Langerderfer, 12 Spitzer Bldg., $331,000; P. Garrigan & Son, 434 Valentine Bldg., $15,989; M. P. Hannin, 431 Valentine Bldg., $44,336.

★**Ind., Rushville**—Co. Comrs. let contract to G. T. Miller, Lebanon, for concrete roads, Ripley and Walker Twps., $50,710; O. W. Righter Rd., $51,685.

★**Ind., Wabash**—County let contract building roads to Kilty, Heck & Kilty, North Manchester, $9323, and J. C. O'Connor & Son, Ft. Wayne, $4185.

★**Mich., Petoskey**—(Official)—City plans to build concrete road by day labor. R. D. Tripp, city engr.

★**Illinois**—(Official)—State Highway Comn., Springfield, let contract building roads in counties as follows: earth roads Sects. F and G, Montgomery Co. to J. D. Vogt, Reeb Station, Belleville, $6400 and $11,988 respectively; concrete road, Sect. C, Rock Island Co., S. D. Hicks Constr. Co., Moline, $9276; brick road, Sect. E, Stephenson Co., G. Graham Co., Freeport, $18,147; brick road, Sect. G, Tazewell Co., to D. A. Meyers, 209 West Armstrong St., Peoria, $6937. Noted May 10.

★**Ill., Jacksonville**—Bd. Local Improv. let contract paving West State St. to Standard Paving Co., 29 South La Salle St., Chicago, $50,000; North Sandy, West Ct. and Northwester St. to J. A. Bretz, 3rd and Carpenter Sts., Springfield, $8598.

★**Ill., Witte**—City let contract paving streets to Strubel & Nickalton, $18,000.

★**Wis., Bayfield**—City let contract paving 7 blocks, vitir. brick, to Sweeney Bros., Reedsburg, $1.85 per sq ft.

★**Wis., Madison**—Bd. Pub. Wks. let contract paving streets, concrete and sheet asphalt, to John Constr. Co., J. F. Icke and J. R. Aillmone, $450,000. Noted May 4.

★**Ia., Clarinda**—(Official)—City let contract paving streets to J. S. McLaughlin & Sons, Red Oak, $80,000.

Minn., St. Cloud—(Official)—City received low bids paving 13,000 sq.yd. bitulithic from C. T. Welch Co., Minneapolis, $2.04 per sq.yd.; 11,000 sq.yd. from General Contr. Co., 1254 Plym Bldg., Minneapolis, $2.22 per sq.yd.

★**Neb., Omaha**—City let contract paving portion Bancroft Blvd. to H. Murphy Contr. Co., $2.60 sq.yd.

★**Mont., Roundup**—City let contract paving business dist. to Warren Constr. Co., Journal Bldg., Portland, $73,330. Noted Apr. 19.

★**Ark., Eureka**—(Official)—County let contract road between Eureka Springs and Benton County line to Inland Constr. Co., Oklahoma.

★**Washington**—State Highway Comn., Olympia, let contract improving 4-mi. Pacific Highway to Barbo Bros., Bellingham, $18,150; portion National Park Highway to G. A. Banderett, Bryn Mawr, $25,023.

Wash., Seattle—Bd. Pub. Wks. received low bids paving Rainer Ave. from Sparger Concrete Co., Coleman Bldg., $44,102; Ferguson Constr. Co., White Bldg., $46,098; Occidental Ave., McGuire Bros., $73,315, Seattle Paving Co., Seattle, $74,627, Piorito Bros., $77,405.

★**Wash., Wenatchee**—County let contract building concrete road to C. M. Payne, East 714 Mission Ave., Spokane, $19,631. Noted Apr. 19.

★**Ore., Portland**—City let contract paving portion Powell St. to Warren Constr. Co., Journal Bldg., $26,352.

California—State Highway Comn., Sacramento, received low bids building 3.46 mi. concrete highway in Solano Co. from Harlan & Harlan, Williams, $26,977; 3.2 mi. between Sante Rita and Dublin, Alameda Co., from Borland & Ayer, Oakland, $29,306.

California—State Highway Comn., Sacramento, received low bids building 2.9-mi. grading on state highway between Las Cruces and Gaviota Pass, Santa Barbara Co., from I. Hodson, San Luis Obispo, $59,950; R. Sherer, P. E. Bldg., Los Angeles, $61,551; Sandercock Transfer Co., San Luis Obispo, $63,065.

★**Que., St. Augustin**—Council let contract building roads to Lagamere, Honde & Cie, Grandmere, $14,000.

★**Man., Wallace**—City let contract grading 18½ mi. road to A. R. Bolvin, 167 Notre Dame E, Winnipeg, $19,500.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Pennsylvania—Hershey Transit Co. completing surveys for extension from Hershey to Manheim. J. B. Leithiser, Hershey, genl. mgr.

Alabama—Receivers of Gulf, Florida & Alabama Ry. asked W. B. Sheppard, judge, for authority to borrow $500,000 on receivers' certificates for extending and improving main line, constructing sidings and spur tracks to industrial plant, purchase of necessary rolling stock and other improvements. J. P. Lynahan, Pensacola, Fla., supt.

Michigan—M. Polasky, Alma, is reported interested in electric railway to be built from Lansing to Mount Pleasant, via Alma.

Illinois—Illinois Terminal R.R having surveys made for line from Edwardsville to O'Fallon, which will eventually be extended to East Carondelet. Estimated cost of entire line, $3,000,000. H. H. Rodgers, Alton, engr. M. W.

Illinois—Chicago, Fox Lake & Northern Electric Ry. will soon begin construction on line from Evanston to Palatine, via Niles Center, Park Ridge, Mt. Prospect and Arlington Heights. Company will take over Palatine, Lake Zurich & Wauconda R.R., operating steam line from Palatine to Wauconda; from Wauconda new line will be built to extend north to Volo (Round Lake P. O.), Fox Lake, Lake Geneva, Wis., and Antioch, then west and north to Elkhorn and Jefferson, Wis. L. K. Sherman, 6418 South Sangamon St., Chicago, ch. engr.

Illinois—Chicago, Springfield & Cairo Ry. made application to State Pub. Utilities Comn. for certificate of convenience and necessity to build railway south from Springfield to Cairo, via Pawnee, Harvel, Greenville, Hillsboro, Carlyle, Nashville, Pinckneyville, Murphysboro and Jonesboro. J. B. Campbell, pres. A. E. Taylor, secy.

Wisconsin—Milwaukee Connecting Ry., subsidiary of Chicago & Northwestern Ry., completed preliminary plans for connecting link between Madison and Sparta lines, east of West Allis, 8 mi. About $1,200,000. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, ch. engr.

Iowa—Ft. Dodge, Des Moines & Southern R.R. plans to spend $250,000 for extensions and improvements. C. H Crooks, Boone, genl. mgr.

Nebraska—Union Pacific R.R. will extend Platte Valley line, running from North Platte to Gering, to point 30 mi. beyond western terminus, through the Goshen Hole country in eastern Wyoming. R. L. Huntley, 15th and Dodge Sts., Omaha, ch. engr.

Missouri—Atchison, Topeka & Santa Fe Ry. plans line from Mexico, Mo., to St. Louis, and from Mexico to Corrollton. Work will be started as soon as right-of-way has been secured. R. A. Rutledge, Topeka, Kan., ch. engr. Eastern Lines.

Arizona—W. A Clark, Miner Bldg., Butte, Mont., is reported interested in railway to be built from Swansea, via Kingman, to St. Thomas, Nev., on San Pedro, Los Angeles & Salt Lake R R.

Arizona—Prescott & Phœnix Short Line R.R. having final surveys made for 70-mi. standard gage railroad from Turkey to Glendale. R. E. Sloane, 406 Fleming Bldg., Phœnix, secy. and treas.

Mexico—See "Miscellaneous."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mississippi**—Illinois Central R.R. let contract grading about 23 mi. second track at 2 points on Yazoo & Mississippi Valley R.R., from Marietta to Prichard, about 12 mi., and from Gwin (Tchula P. O.), to Cruger, about 11 mi., also bridges, to Philbrick & Baxter, Jackson. Estimate, $500,000.

★**Tennessee**—Southern Ry. let contract double tracking line from Helenwood to Robbins, 6.4 mi., to Sheehan Constr. Corp., Roanoke, Va.

★**Washington**—Methow Valley & Eastern Ry. let contract 45-mi. railway from Pateros to Winthrop to Erickson Bros., Krupp.

EXCAVATION AND DREDGING

Proposed Work

Ga., Homer—Drainage—Comrs. Grove River D. D. No. 2, Banks Co., will issue $28,000 bonds to improve Grove River and other tributaries in district. J. W. S. Lord, chn.

La., Slidell — Drainage — See "Streets and Roads."

Ky., Paducah—Canal—J. M. Lang, co. judge, completed plans Mayfield Creek Drainage Canal from Grahamville, McCracken Co., across McCracken, Graves, Ballard and Carlisle Cos., emptying into Mississippi River, about 40 mi.; 65 ft. wide and 15 ft. deep. About $300,000. McCracken Drainage Comn. in charge of construction. H. Beyer, pres.

Ia., Jefferson—(Official)—Drainage—Bd. Co. Supervs. rejected bids Joint Drain No. 110 in Greene Co. and No. 221 in Webster Co. B. S. McCully, Jeffersin, co. aud. Noted May 17.

Ia., Westfield—Drainage—Westfield D. D. plans open ditch work. About $20,000. C. Moriarty, 600 United Bank Bldg., Sioux City, engr.

Minn., Ada—(Official)—Ditches—County sold $235,000 bonds for Judicial Ditches Nos. 53 and 54. D. E. Fulton, co. aud. Noted May 10.

Minn., Redwood Falls—Ditch—Co. Comrs. plan Ditch No 38. L. P. Larson, co. aud.

Kan., Quenemo—Drainage—E. B. Murray, engr., 920 Walnut St., Kansas City, Mo., completed surveys Marais des Cynes River drainage project in Franklin and Osage Cos., including 2-mi. ditch for Quenemo D. D. Cost between $100,000 and $125,000.

Colo., Ordway—Drainage—Natl. Sugar Co. preparing plans drainage system for extensive land holdings in county.

N. M., Las Vegas—Drainage—V. K. Jones, city engr., preparing plans drainage district. About $15,160.

Ore., Portland—Drainage—Peninsula D. D. organized to drain Oregon and Columbia Slough Dists., about 951 acres. C. C. Colt, 627 Knot St., interested.

Cal., Los Angeles—Irrigation—State Water Comn., Call Bldg., San Francisco, granted permission to Sespe Light & Power Co., Los Angeles, to divert 88 second-feet of water from Sespe River for hydro-electric power plant. Plans include loose-rock and concrete dam and 9-mi. main canal and flume generating 5000 hp. About $2,000,000.

Cal., Oroville—Irrigation—F. F. Ford, A. L. Andrews, N. B. Crane and associates plan to engage engineer to investigate feasibility of irrigation district in Butte Co. to irrigate 30,000 acres of land. Water will be obtained from Middle Fork of Feather River, or system of Feather River Land and Irrigation Co. will be taken over and extended.

Cal., Susanville—Irrigation—State Water Comn., Sacramento, received application from Horne Development Co., Auburn, for permission to divert 20 sec.-ft. of water from streams in Lassen Co. for irrigation. Plans include 2 earth storage dams. About $71,000.

Cal., Susanville—Irrigation—Baxter Creek Irrigation Dist. voted $310,000 bonds to construct irrigation system.

BIDS DESIRED

N. Y., Albany—(Official)—Canals—Until June 26 by W. W. Wotherspoon, state supt. pub. wks., Capitol, improving New York State canals, Contract No. 146, Erie Canal, Sect. 4, constructing movable dam to replace existing Dam No. 14, Herkimer; advertised in this issue.

Miss., De Kalb—See "Streets and Roads."

Miss., Greenville—(Official)—Drainage—Until June 11 by O. C. Kulicka, secy. co. bd. drainage comrs., clearing natural channels in Black Bayou and Granicus Bayou, about 6-mi. Noted May 17.

La., Opelousas—Drainage—Until June 18 by C. F. Boagni, pres., Bayou Mallet and Plaquemine D. D. for excavating 42.2-mi. ditch, bottom ranging 6- to 28-ft. containing about 518,000 cu.yd. dirt; completing system of ditch designed to provide gravity drainage for above district.

Ia., Algona—(Official)—Drainage—Until June 15 by W. Wendt, drainage clk. for D. D. No. 133; Kossuth Co. D. D. No. 150; Winebago-Kossuth Joint D. D. Nos. 68-136; Emmet-Kossuth Joint D. D. No. 5; Humbolt-Kossuth Sub 2 of Joint No. 2.

Ia., Charles City—(Official)—Ditch—Until June 8 by C. R. Jones, co. aud., laying, filling, and construction of headwalls and intakes for Drain No. 3, Sect. 1; former bids rejected.

Ia., Mason City—Drainage—Until June 5 by G. E. Frost, co. aud., for drainage work, Dist. No. 44, 44,550 ft. 6- to 28-in. tile; Dist. No. 52, 9355 ft. 6- to 15-in. tile; Dist. No. 54, 18,810 ft. 6- to 16-in. tile; Dist. No. 49, 26,350 ft. 7- to 28-in. tile; Dist. No. 41, 29,500 ft. 6- to 18-in. tile; also repair for Dist. No. 2, 3350 ft. 8- to 10-in. tile.

Minn., Ada—Ditch—Until June 5 by D. E. Fulton, co. aud., for Ditch No. 42, requiring 94,353 cu.yd. excavation.

Minn., Chaska—(Official)—Ditch—Until June 22 by J. B. Connolly, co. aud., dredging Ditch No. 6, about $12,922, fencing $1151. Noted May 3.

Minn., Crookston—Ditch Work—Until June 12 by H. J. Welte, co. aud., repairing County Ditches Nos. 51, 20 and 53, each requiring about 3000 cu.yd. excavation.

S. D., Sioux Falls—Spillway—See "Reinforced Concrete."

Mo., Bloomfield—Ditch—Until June 6 by A. C. Spiker, civil engr. of D. D. No. 30, for constructing ditch and clearing right-of-way.

Excavation and Dredging (Continued)

Mo., **Bloomfield**—Ditch—Until June 13 by J. E. Dunn, civil engr. of D. D. No. 31, for constructing ditch and clearing right-of-way.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Ia., **Charles City**—(Official)—Ditch—County let contract Drain No. 3, Sect. 1, to C. L. Hanson, $14,000, open ditch work; Cement Products Co., Spencer, $49,000, furnishing tile. Noted May 17.

Minn., **Duluth**—Ditch—County received only bid for Ditch No. 8 from Constr. Co., 304 Alworth Bldg.; furnishing culverts from Minneapolis Steel and Machinery Co., 29th and Minnehaha Sts., Minneapolis, Noted May 3.

★Neb., **Schuyler**—(Official)—Drainage—County let contract drainage ditch to Elkhorn Constr. Co., Fremont, 12½c. per cu.yd. Noted May 10.

★Mo., **Charleston**—Drainage—County let contract open work in Big Lake D. D., requiring 1,050,000 cu yd. excavation, to Sternberg Bros., Natl. Bank of Commerce Bldg., St. Louis.

★Mo., **St. Charles**—Ditch—County let contract clearing right-of-way, excavating ditch, etc., to Wilmes & Foundley, St. Charles.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—General Electric Co., 84 State St., having plans prepared by A. J. H. & W. C. Ely, archt., Essex Bldg., Newark, N. J., for 3-story, 80x340-ft. factory, Porter St.

Mass., Boston—L. Shapiro, 27 School St., having plans prepared by J. E. McLaughlin, archt., 18 Tremont St., for 1-story garage, to be leased to U. S. Government. About $50,000.

Mass., Cambridge—Fleischmann Co., 701 Washington St., New York City, having plans prepared by C. A. Jackson, archt., c/o owner, for 3-story, brick and steel plant, Inmann St.

Mass., Newford—Butler Mill Corp., Ruth Ave., plans 1-story, 140 x 650-ft. addition to be used as weave shed. About $136,000.

Mass., Watertown—Hood Rubber Co. soon receives bids 5-story, brick and concrete plant. About $300,000. W. J. Bitterlich, archt.

Mass., Worcester—Morgan Spring Co., West Boylston, plans 4-story, 66 x 201-ft., brick and rein.-con. japanning department.

N. Y., Albany—Albany & Southern R.R. having plans prepared by J. G. White Engr. Corp., 43 Exchange Pl., New York City, for hydro-electric plant in Catskill Mountains. About $3,000,000. J. E. Hewes, genl. mgr.

N. Y., Buffalo—Donner-Union Coke Corp., recently incorporated, plans byproduct coke oven on 50-acre site adjoining plant of Donner Steel Co., Inc., Abbot Rd. About $3,000,000. R. N. Donner, F. B. Baird, H. Yates and F. C. Slee, dirs.

N. Y., Victory Mills—Saratoga Victory Mfg Co. having plans prepared by W. Higginson, archt., 13 Park Row, New York City, 4-story, 150x280-ft. factory.

N. J., Clifton—American Forging Co., recently incorporated with $100,000 capital stock, purchased site on Erie R.R., and plans plant. J. H. Waters, pres., J. Travers, secy.

Pa., Phila.—American Insulation Co., 67 North 2nd St., soon lets contract 2-story, 83x130-ft. brick, stone and concrete factory, Stokley and Roberts Sts. Peuckert & Wunder, archts., 310 Chestnut St.

Pa., Phila.—Berko Bros., Randolph and Wood Sts., plan 2-story, 140 x 200-ft. factory at York and Erie Sts.

Pa., Phila.—Edgewater Finishing Co., Frankford and Nicetown Sts., plans 4-story, 102 x 157-ft. factory at 4080 Frankford Ave.

Pa., Phila.—India Refining Co., Swanson and McKean Sts., plans rebuilding factory, 3-story. About $100,000. W. D Furber, archt. and engr., 420 Walnut St., soon receives bids. Noted May 3.

Pa., Phila.—Very Best Garage Co. soon lets contract 4-story, 77 x 115-ft. brick and rein.-con. garage, 7th and Spring Garden Sts. F. V. Greenstien, archt.

Pa., Pittsburgh—J L. Stewart plans 9-story rein.-con. warehouse at 123-25 Penn Ave. About $115,000.

N. C., Wilmington—See "Reinforced Concrete."

Miss., Canton—Stillwater-Crosby Lumber Co., increased its capital stock from $200,000 to $350,000, and will extend plant.

O., Cincinnati—Citizens Motor Car Co., 7th and Main Sts., purchased site in Dayton Dist. and plans 2-story, 71 x 166-ft. garage and shop.

O., Cincinnati—Davenport Paper Box Co., 239-241 Main St., had plans prepared by G. W. Drach, archt., Union Trust Bldg., 4-story, 100x156-ft. factory, Pearl and Pike Sts. About $100,000. F. Davenport, pres.

O., Cincinnati—H. H. Meyer Packing Co., Central Ave. and Lynn St., had plans prepared by M. Fisher, archt., 2156 Central Ave., remodeling 3-story packing plant.

O., Cincinnati—Sheriff Preserve Co., 123 East Pearl St., purchased site at 8th and McLean Sts. and plans 5-story cold-storage plant.

O., Cincinnati—G. H. Strietmann, 225 W. 12th St., plans 2-story, 50x150-ft. garage and warehouse. Stegner & Hughes, archts., Commercial Tribune Bldg., soon receives bids. Noted Apr. 5.

O., Cleveland—Columbia Axle Co., 826 East 72nd St., having plans prepared by W. S. Ferguson Co., archt., 1900 Euclid Ave., for 1- and 2-story, 300 x 500-ft. factory. About $250,000. W. R. Hopkins, pres.

O., Cleveaind—Grant Motor Car Co., Coit Rd., plans factory and boiler house at Coit Rd. and Kirby Ave. About $600,000. W. S. Ferguson Co., archts. and engrs., 1900 Euclid Bldg., soon receives bids.

O., Cleveland—Otis Elevator Co., 528 Leader-News Bldg., plans 2-story, 60 x 100-ft. building, 1375 East 6th St. About $70,000.

O., Cleveland—K. V. Painter plans garage and factory, 1975 East 66th St. About $80,000.

O., Cleveland—Supreme Motors Corp. purchased site, Bliss Rd. and St. Clair St., and plans factory to manufacture automobiles and aëroplanes. About $50,000. C. F. Jamison, pres.

Ind., Gary—Cudahy Chemical Co. plans additions. About $500,000.

Mich., Detroit—Briggs Mfg. Co., Leuschner Ave., and G. T. R. R., increased its capital stock from $50,000 to $750,000, and will enlarge plant.

Ill., Chicago—Central Mfg. Co., 1st Natl. Bank Bldg., plans power station, 2015 West 39th St. About $250,000. S. Scott Joy, archt.

Ill., Chicago—B. Heller & Co., 3925 Calumet Ave., plans 3-story factory, Prairie Ave., near 38th St. About $60,000. J. C. Llewellyn, 38 South Dearborn St., archt.

Ill., Chicago—Peacock Estate, c/o E. N. Brydges, archt., 64 E Van Buren St., soon receives bids 3-story, 100x110-ft. factory, Stewart Ave., between 35th and 36th Sts.

Ill., Chicago—Turner Mfg. Co., 1444 South Sangamon St., plans 3-story manufacturing plant, Ogden Ave. and 42nd St. A. S. Alschuler, archt., 28 E Jackson Blvd., soon receives bids.

Ill., Chicago—United States Can Co., 2510 Highland Ave., Norwood, having plans prepared by S. N. Crowen, archt., 30 North La Salle St., for 1st unit of its plant, 1-story. About $300,000.

Ill., Decatur—Comet Automobile Co., Orlando Bldg., had plans prepared for 2-story, 50x80-ft. assembling plant. About $135,000. G. W. Jagers, pres. and genl. mgr.

Ill., East St. Louis—Golden Grain Milling Co., 17th St. and Brady Ave., soon receives bids milling plant. About $250,000. E. L. Solfisburg, treas. and genl. mgr.

Ill., Rockford—Keig & Stevens had plans prepared by C. D. Dooley Co., archts., and P. H. Anthony, assoc., archt., 1109 Waldheim Bldg., Kansas City, Mo., for 2-story bakery. About $50,000.

Wis., Clintonville—Wisconsin Duplex Auto Co., recently incorporated with $500,000 capital stock, plans plant to manufacture 1-ton trucks. B. A. Mosling, genl. mgr.

Wis., Milwaukee—Valley Steel Co., recently organized by Milwaukee capitalists affiliated with financial interests in the East, plans steel mill here. About $1,000,000.

Wis., Racine—Belle City Mfg. Co. had plans prepared for 4-story, 80 x 200-ft. addition to warehouse.

Minn., Duluth—Robert Barnes Steamship Co. plans plant. About $100,000. A. McDougall, Jr., and A. Barnes, interested.

Minn., Minneapolis—United Chemical Industry Co., 636 McKnight Bldg., preparing plans factory. About $50,000. O. L. Bird, secy.

Mo., Joplin—City will hold election June 12 to vote on $225,000 bonds to build light plant. H. Phillips, city clk.

Tex., Beaumont—See "Reinforced Concrete."

Tex., Ft. Worth—Riverside Cotton Oil Co. increased its capital stock from $75,000 to $250,000, and will enlarge its power plant.

Tex., Houston—Texas Chemical Co., incorporated with $100,000 capital stock, plans fertilizer manufacturing plant. F. H. Ward and E. W. Townes, Houston, incorporators.

Wash., Seattle—Metropolitan Bldg. Co., Henry Bldg., retained Howells & Stokes, Henry Bldg., to prepare plans 4- or 7-story garage and machine shop, University Tract, 5th Ave. to serve tenants of White, Henry and Stuart Bldg. About $150,000.

Cal., Alturas—See "Reinforced Concrete."

Cal., Bakersfield—See "Reinforced Concrete."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., **Boston**—Armour Co., Union Stock Yards, Chicago, let contract brick, steel and rein.-con. factory, 105-09 Berkeley St., Boston, to R. C. Clark, 7216 Harvard Ave., Chicago. About $175,000.

★Mass., **Springfield**—Harley Co., Page Blvd., let contract forge shop to E. F. Carlson Co., 310 Main St. About $100,000.

★Conn., **Waterbury**—American Brass Co. let contract factory to Chatfield & Chatfield, 94 Benedict St., $100,000.

★N. Y., **New York**—Stern & Sallsberg, 416 W. 45th St., let contract candy factory to Reid Palmer Constr. Co., 30 E. 42nd St., $75,000.

★Pa., **Phila.**—Field & Co., 721 Arch St., let contract warehouse, office and garage on 16th St. to W. S. Slifer. About $90,000.

★Pa., **Phila.**—Pennsylvania Sugar Co., Broad and Chestnut Sts., let contract refinery, warehouse, wharf and power plant to O'Meara Contr Co., 253 Quince St., $200,000.

★Pa., **Phila.**—Phila. Drying Machine Co., 6721 Germantown Ave., let contract factory to Driscoll Co., Stock Exchange Bldg., $65,000.

★Pa., **Phila.**—Phila. Paper Mfg. Co., Nixon St., let contract addition, Nixon and Fountain Sts., to Barclay, White & Co., 1713 Sansome St. About $75,000.

★O., **Cleveland**—Cleveland Welding & Mfg. Co., 2129 East 117th St, let contract factory to Hunkin, Conkey Co., Cuyahoga Bldg., $60,000.

★O., **Cleveland**—Peters Machine & Mfg. Co., 7320 Madison Ave., let contract addition to Chrisford Constr. Co., 1452 Highland Ave. About $60,000.

★O., **Cleveland**—Winton Gas Engine Co., 2116 W. 106th St, let contract factory to Austin Co., 14230 Euclid Ave., $50,000. Noted May 10.

★O., **Cleveland**—Wolf Envelope Co., 1270 Ontario St., let contract factory to C. A. Carson Co., 6408 Euclid Ave., $50,000.

★O., **Fostoria**—Dale Body Co., c/o Allen Motor Car Co., let contract 1-story, 100x400-ft. autobody plant to E. L. Bartley, $100,000.

★Mich., **Detroit**—A. Krolik & Co., 138 Jefferson Ave., let contract 8-story warehouse, Jefferson and Randolph Sts., to H. Ericson, Detroit.

★Mich., **Detroit**—Michigan Copper & Brass Works, 1605 West Jefferson St., let contract addition to H. Carew, 210 Jos. Campau. About $110,000.

★Ill., **Aurora**—Allsteel Equipment Co., c/o Davidson & Weiss, archts., 53 West Jackson Blvd., Chicago, let contract plant to MacKimmie, 296 Iowa St., $50,000.

★Ill., **Chicago**—Bauer & Black Co., 45 West 25th St., let contract 3-story, 100x200-ft. chemical factory to J. J. & J. W. O'Connor, 189 West Madison St.

★Ill., **Chicago**—W. M. Derby, 108 South La Salle St., let contract service station and salesroom to W. H. Barry, 6810 Lakewood Ave., $70,000.

★Ill., **Chicago**—R. J. Ederer Co., 317 North Michigan Ave, let contract factory to H. Ericsson Co., 139 North Clark St., $200,000.

★Wis., **Fond du Lac**—Damrow Bros. Co., 39 3rd St., let contract, 3-story, 80x100-ft., factory to A. Beldin, 170 S. 4th St.

★Wis., **Milwaukee**—See "Reinforced Concrete."

★Wis., **Milwaukee**—Davis Mfg. Co., 57th Ave. and Mitchell St, let contract 150 x 261-ft. foundry to R. L. Reisinger Co., 1st National Bank Bldg.

★Wis., **Milwaukee**—C. A. Krause Milling Co., 37th Ave., and Burnham St., let contract additions to Foster Constr. Co., Caswell Blk., $150,000.

★Wis., **St. Francis**—Valley Steel Co., Milwaukee, let contract through W. E. Moore & Co., engrs., Union Bank Bldg., Pittsburgh, for 85 x 680-ft., steel, brick and concrete mill, here, to Worden-Allen Co., Port Washington Rd., Milwaukee.

★Ia., **Des Moines**—Carpenter Paper Co., 214 Court Ave., let contract factory to C. Weitz Sons, 713 Mulberry St., $60,000.

★Ia., **Dubuque**—Blake Milling Co., Edwardsville, Ill., let contract flour mill to Burrell Engr. Co., 327 South La Salle St., Chicago, $75,000.

★Ont., **Hamilton**—Natl. Abrasive Co. let contract factory to Canadian Constr. Co., Bank of Hamilton Bldg., $75,000. Noted May 10.

★Sask., **Saskatoon**—See "Reinforced Concrete."

BUILDINGS

Proposed Work

Mass., Boston—Theater—Codman Square Theater Co. plans 2-story, 70 x 230-ft. brick. About $175,000. J. McGinniss, 16 Arlington St., archt.

R. I., Woonsocket—Grammar School—Bd. Educ. plans, Olo St. About $50,000. J. J. Gearon, ch. bldg. com. W. F. Fontaine, 285 Main St., archt.

Conn., Ansonia—Bank—Ansonia Natl. Bank, 165 Main St., having plans prepared by Mowbray & Uffinger, archts., 56 Liberty St., New York City, 1-story, granite, limestone or art stone. About $60,000.

Buildings (Continued)

Ct., Bridgeport—Store and Hotel—F. Canevari having plans prepared by Davis & Dane, archts., Connecticut Bank Bldg., 4-story, brick, Main St. and Union Sq. About $50,000.

N. Y., Albany—Parish House—St. John's Evangelical Lutheran Congregation had plans prepared by Loth & White, archts., 130 State St., 2½-story, 50 x 102 ft. About $60,000. Y. Brant, 166 Central Ave., pastor.

N. Y., Auburn—Exchange—New York Telephone Co., 15 Dey St., New York City, having plans prepared by E. A. Munger, engr., c/o. Telephone Co., 3-story, 57x92-ft. About $115,000.

N. Y., Binghamton—School—Bd. Educ. having plans prepared by T. I. Lacey, archt., 1110 Press Bldg. About $150,000. W. C. Bates, pres.

N. Y., Buffalo—High School—City had plans prepared by H. Beck, archt., Municipal Bldg., 2-story. About $200,000.

N. Y., Cohoes—High School—Bd. Educ. plans, Tooker & Marsh, 103 Park Ave., New York City, archts. C. V. Merrick, 51 State St., Albany, advising archt.

N. Y., Granville—Hotel—Central House had plans prepared by H. Rogers, archt., 467 Bway., Albany, 4-story, 38 x 118-ft. E. M. Copps, proprietor. Noted May 3.

N. J., Bayonne—School—Bd. Educ. had plans prepared by D. G. Anderson, archt., 29 East 49th St., New York City. Eadie, Freund & Campbell, 7 West 45th St., New York City, engrs.

N. J., Glassboro—School—Bd. Educ. plans, 2-story, Academy St. About $75,000. Moffett & Stewart, archts., 30 North 3rd St., Camden, soon receives bids. Noted May 24.

N. J., Newark—Theater, Store, Office and Lodge—A. W. Moore, 22 Green St., had plans prepared by H. Baechlin, archt., 665 Broad St., 2-story, 125 x 150-ft. About $55,000.

Pa., Doylestown—School—Natl. Farm School, c/o H. D. Allman, 1001 Chestnut St., Phila., plans 2½-story addition. About $50,000. Magaziner & Potter, archts., 603 Chestnut St., Phila., soon receive bids.

Pa., Homestead—Hospital—Homestead Hospital conducting campaign to raise $100,000 to build. B. B. Wolf, pres.

Pa., Lansdale—Church and Parsonage—Methodist Episcopal Congregation plans. About $50,000. H. H. Reidler, Broad St., chn. bldg. com. G. E. Savage, archt., Witherspoon Bldg., Phila., soon receives bids.

Pa., Palmerton—Bank—1st Natl. Bank had plans prepared by Ruhe & Lang, archts., 12 North St., Allentown. About $50,000.

Pa., Pittsburgh—Church, School, Convent and Parish House—St. Peter's Congregation soon receives new bids, 2-story, 44 x 108-ft. church, 36 x 105-ft. schoool, 33 x 33-ft. each parish house and convent. E. Lisotto, 559 Lenora St., archt. Former bids rejected.

Del., Newark—Dormitory—Delaware College having plans prepared by Day & Klauder, archts., 925 Chestnut St., Phila., 3- and 4-story, 30x200-ft., concrete and marble.

Va., Richmond—Bank—Federal Reserve Bank, 109 East Main St., having plans prepared by Sill, Buckler & Fenhagen, archts., 11 East Pleasant St., 5-story.

Ala., Montgomery—Annex—Southern Bell Telephone and Telegraph Co., Telephone Bldg., plans 4-story annex. About $100,000.

Tenn., Lewisburg—High School—County defeated $55,000 bonds to build school. Noted Apr. 5.

Ky., Louisville—Hotel—Phœnix Hotel Co. purchased site, Cheapside and Short Sts., and will build, 10-story.

O., Cleveland—School—Bd. Educ. had plans prepared by W. R. McCormack, archt., 2-story addition to Rice School. About $160,000. Noted May 24.

O., Cleveland—School—F. G. Hogan, dir. pub. schools, East 6th St. and Rockwell Ave., having plans prepared by W. R. McCormack, archt., 2-story addition to North Doan Schoool. About $110,000.

O., Cuyahoga Falls—High School—Town will sell $50,000 bonds June 14 to build high school. N. H. Rook, clk. Noted May 17.

O., Lakewood—Schools—City plans to hold election to vote on $620,000 bonds to build schools.

O., Martins Ferry—School—H. H. Ruyhmiller, city clk., will sell $150,000 bonds June 20 to build school. Noted May 10.

O., Portsmouth—Church—United Brethren Congregation, 517 Glover St., had plans prepared by DeVoss & Donaldson, archts., 1st Natl. Bank Bldg., 1-story, 85 x 107-ft. About $50,000. O. L. Barngrover, pastor. Noted May 3.

O., Sandusky—Church—Methodist Episcopal Congregation had plans prepared by O'Donnel & Wolfe, archts. About $70,000.

O., Springfield—Office—Ohio Chemical Co. soon lets contract, 6-story, 50 x 102-ft., brick and terra cotta, Fountain and High Sts. R. C. Gotwald, Gotwald Bldg., archt.

O., Toledo—High School—Bd. Educ. voted $500,000 bonds to build high school on South Side.

O., Youngstown—Library—City soon lets contract, 4-story, 100 x 200-ft. D. J. Jones, clk. McKim, Mead & White, 101 Park Ave., New York City, archts.

Ind., Crawfordsville—High School—Bd. Educ. Clark Twp. had plans prepared by R. F. Daggert, archt., 926 Lemke Annex, Indianapolis, 2-story addition. L. N. Hines, supt.

Ind., Laporte—Church—St. Peter's Congregation having plans prepared, 2-story. About $65,000. G. Schramm, pastor. Worthmann & Steinbach, 155 North Clark St., Chicago, archts.

Ind., Richmond—Lodge and Office—Knights of Pythias plan. About $70,000.

Mich., Detroit—School—Bd. Educ. granted appropriation of $120,000 for addition to Greusel School. C. A. Gadd, 50 Bway., business mgr. Malcomson & Higginbotham, 404 Moffat Bldg., archts.

Ill., Chicago—Hotel—S. T. Cooper, 111 West Washington St., plans, 11-story, 75 x 125-ft. About $1,250,000.

Ill., Chicago—Theater, Store and Office—Estate of C. Kohl, c/o M. Beck, 22 West Monroe St., had plans prepared by C. W. & G. L. Rapp, archts., 69 West Washington St., Chicago, and G. A. Landsburgh, 709 Mission St., San Francisco, associate archts., 16-story, 163 x 180-ft. About $1,000,000.

Ill., Chicago—School—Post-Graduate Medical School, Dearborn and 24th Sts., plans 6-story addition. About $100,000.

Wis., Green Bay—School—Bd. Educ. had plans prepared by Foeller & Schober, archts., 123 North Washington St., rebuilding Whitney Grade School, 3-story, 60 x 147-ft., with 44 x 53-ft. wing. About $90,000. A. W. Burton, secy.

Wis., Niagara—Grade School—Dist. No. 7 voted $50,000 bonds to build grade school. D. Huper, Spies Bldg., Menominee, Mich., archt.

Ia., Bronson—School—City voted $50,000 bonds to build school. Plans will be prepared. F. H. Oertel, secy. Noted Apr. 26.

Ia., Davenport—Schools—Bd. Educ. retained Temple & Burrows, archts., 63 Davenport Savings Bank Bldg., to prepare plans, 2-story. About $450,000. J. D. McCollister, 1130 Main St., secy. Noted Apr. 5.

Ia., Fairfield—Bank—Iowa State Savings Bank plans, 2-story, 50 x 88-ft. P. V. Hyland, archt., 29 East Madison St., Chicago, soon receives bids.

Ia., Le Mars—(Official)—Hospital—Sisters of St. Francis will receive bids in September. About $85,000. W. L. Stelle, archt., United Bank Bldg., Sioux City, preparing plans. Noted May 10.

Ia., Mingo—School—Bd. Educ. Consolidated Dist. plans election to vote on $50,000 bonds to build school.

Ia., Traer—School—City will hold election June 4 to vote on $62,000 bonds to build school.

Minn., Finlayson—School—Bd. Educ. having plans prepared by Kelly & Shefchik, archts., 1st Natl. Bank Bldg., Duluth, for school. About $50,000.

Minn., New Ulm—(Official)—City Hall—City voted $50,000 bonds to build school, but on account of high cost of material project was postponed indefinitely. Noted May 10.

Minn., Randolph—School—Randolph Consolidated School Dist. had plans prepared by Tyrie & Chapman, archts., Auditorium Bldg., Minneapolis, 2-story. About $50,000. C. L. Pillsbury, 805 Metropolitan Life Bldg., Minneapolis, mech. engr.

Minn., St. Cloud—School—Bd. Educ. voted $100,000 bonds to build school. J. Adams, clk.

Minn., Warroad—School—Bd. Educ. voted $50,000 bonds to build school.

Kan., Independence—High School—Bd. Educ. defeated $300,000 bonds to build school. G. H. Piper, clk. Noted May 3.

Kan., Salina—School—Bd. Educ. plans, 2-story. About $80,000. W. T. Smith, archt., Oklahoma, receives bids about June 15.

Kan., Wichita—Office—Southwest Publishing Co. plans, 11-story, brick, terra cotta and rein. con. About $330,000. W. G. Charles, 601 Schweiter Bldg., archt.

Neb., Hastings—High School—Bd. Educ. purchased site and will construct high school. About $175,000.

S. D., Mt. Vernon—School—City voted $50,000 bonds to build school.

S. D., Wessington Springs—High School—Bd. Educ. having plans prepared by Edwins & Edwins, archts., 910 N. W. Bldg., Minneapolis, 2-story. About $55,000. C. Gell, clk. Noted May 3.

N. D., LaMoure—High School—Bd. Educ. had plans prepared by W. F. Kurke, archt., Huntington Blk., Fargo, 2-story. About $80,000. C. E. Sabin, supt.

N. D., Minot—Bank and Office—Brush, Williams Co. had plans prepared, 6-story, 25 x 140-ft. About $50,000. C. H. Mott, pres. Tullgren & Son, 1st Natl. Bank Bldg., Milwaukee, archts.

Mo., Boonville—School—Kemper Military School having plans prepared by T. W. Bast, archt., Citizens Natl. Bank Bldg., Sedalia, 4-story, 130 x 130-ft. About $100,000.

Mo., St. Louis—Theater—Melba Amusement Co. plans, Grand and Miami Sts. About $50,000. Maritz, Henderson & Tichschmidt, New Bank of Commerce Bldg., archts.

Mo., St. Louis—School—Bd. Educ. receiving bids in June for Penrose School, 2-story, 80 x 240-ft. About $245,000. R. M. Milligen, archt. Noted May 3.

Mo., St. Louis—Bank—American Trust Co., Bway. and Locust St., plans. About $250,000. T. P. Barnett Co., archts., 705 Olive St., soon receive bids. Noted May 17.

Tex., Corsicana—Schools—City plans election to vote on $250,000 bonds to build schools.

Okla., Shawnee—Schools—Bd. Educ. voted $90,000 bonds to build 2 grade schools and improving high school.

Colo., Littleton—School—Bd. Educ. School Dist. No. 6 election June 9 to vote on $55,000 bonds to build school.

Ore., Portland—Penitentiary—State will hold election June 4 to vote on $400,000 bonds to build penitentiary.

Cal., Alturas—Office, Etc.—See "Reinforced Concrete."

Cal., Oxnard—Bank—1st Natl. Bank plans on 5th St. About $75,000.

Cal., Richmond—Bath-House—City defeated $70,000 bonds to build bath-house. Noted Apr. 17.

BIDS DESIRED

N. Y., New York—Armory—Until June 12 by J. P. Mitchell, mayor, for new 8th coast defence command armory, Jerome Ave. and Kingsbridge Rd., Boro. of Bronx.

N. Y., NewYork—School—Until June 4 by C. B. J. Snyder, supt. school bldgs., dept. educ., Park Ave. and 59th St., addition to P. S. No. 32 on East 183rd St., between Cambreleng and Beaumont Aves., Boro. of Bronx.

N. Y., Niagara Falls—(Official)—Police Station—Until June 11 by City Mgr., rein.-con., brick and stone. About $57,000. Wright & Kremers, 406-8 Gluck Bldg., archts. Noted May 10.

N. Y., Pawling—School—Until June 4 by Village, 2-story, 59x80-ft. brick and steel. A. Hopkins and C. S. Keefe, 101 Park Ave., New York City, archts.

Fla., Clearwater—Court House and Jail—Until June 19 by Co. Comrs., 2-story, 100x150-ft. About $160,000. F. J. Kennard, Amer. Natl. Bank Bldg., Tampa, archt.

Miss., Senatobia—(Official)—School—Until June 5 by Bd. Trustees Arkabutla Consolidated School Dist. R. B. Spencer, 205-6 New Millsap's Bldg., Jackson, archt.

Tenn., Isabella—(Official)—Grammar School—Until June 10 by W. F. Lamoreaux, chn. bldg. com., W. H. Sears, James Bldg., Chattanooga, archt.

O., Dublin—Grade and High School—Until June 8 by N. Dominey, clk. bd. educ., Washington Twp., 2-story. Howard & Merriam, 8 East Broad St., Columbus, archts. About $50,000. Noted Apr. 19.

O., Greenville—(Official)—Hospital—Until June 9 by O. R. Krickenberger, pres., Greenville Hospital Co. E. J. Mounstephen, 803 U. B. Bldg., Dayton, archt.

O., Lebanon—High School—Until June 22 by Bd. Educ. Lebanon Village School Dist. About $75,000. W. C. Maple, clk. Bausmith & Drainie, 901 Gerke Bldg., Cincinnati, archts.

Ind., Rockport—Infirmary—Until June 4 by F. Stocking, co. aud.

Ill., Urbana—(Official)—University—Until June 11 by J. M. White, superv. archt. (postponed from May 30 as previously advertised). Noted Apr. 26; advertised in this issue.

Ia., Centerville—High School—Until June 12 by J. B. Bruckshaw, secy. bd. educ., 2-story. About $125,000. M. B. Cleveland, 603 1st Natl. Bank Bldg., Waterloo, archt. Noted May 24.

Ia., Epworth—Grade and High School—Until June 18 by C. B. Hanna, secy. school dist., 2-story, brick. H. E. Netcott, Independence, archt.

Neb., York—(Official)—School—Until June 7 by W. W. Wyckoff, secy. bd. educ. Berlinghof & Davis, 414 Security Mutual Life Bldg., Lincoln, archts. Noted May 3.

Tex., Austin—(Official)—School—Until June 18 by J. E. Ferguson, governor, for additions to State School for Blind. A. B. Ayres, 626-627 Bedell Bldg., San Antonio, archt.

Tex., Clarendon—(Official)—Until June 5 by C. W. Taylor, secy. Y. M. C. A. for building.

Okla., Colbert—(Official)—School—Until June 4 by Bd. Educ., rein.-con. and brick. J. Hicks, Durant, archt.

Okla., Miami—Hotel—Until June 15 by Miami Hotel Co. 7-story, brick, stone and concrete. About $200,000. A. J. Bellis, 615 Orear-Leslie Bldg., Kansas City, Mo., archt. Noted May 17.

Ariz., Metcalf—School—Until June 5 by W. E. Kelly, clk. school dist. No. 13.

Buildings (Continued)

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Andover**—Parochial School—St. Augustine Congregation let contract, 2-story, 75x80-ft., brick and stone, to P. Hardy, North Andover.

★**Mass., Athol**—Y. M. C. A. let contract 3-story addition to building to L. B. Taylor, Starrett Bldg.

★**Conn., Waterbury**—Club—Waterbury Club let contract to Sperry Engr. Co., 82 Church St., New Haven, $200,000.

★**Conn., Waterbury**—Office—Chase Rolling Mill Co. and Chase Metal Works, North Main St., let contract, 4-story, 97 x 243-ft., to T. Starrett Co., 49 Wall St., New York City.

★**N. Y., Amsterdam**—School—Bd. Educ. let contract, Academy St., to H. C. Grieme Co., Erie St., $80,000. Noted May 3.

★**N. Y., Brooklyn**—Bank and Office—Court & Remsen Co., Inc., c/o Starrett & Van Vleck, archts., 8 West 40th St., New York City, let contract to Starrett & Goss, 103 Park Ave., New York City, $500,000.

★**N. Y., Buffalo**—Nurses Home—Buffalo General Hospital, 100 High St., let contract to J. W. Cowper & Co., Inc., Fidelity Bldg., $250,000. Noted May 3.

★**N. Y., Ft. Edward**—Church—St. Joseph's Congregation let contract church on Bway to P. Keeler Bldg. Co., 425 Orange St., Albany, $70,000. Noted Apr. 26.

★**N. Y., Port Henry**—High and Grade School—Bd. Educ. reawarded contract to J. Dyer, Jr., 6 South Pearl St., Albany, $75,000.

★**N. Y., Solvay**—Bank—J. H. Craig, 511½ Milton Ave., let contract, 4-story, 40x60-ft., to J. F. O'Connor, 420 Elm St., Syracuse.

★**N. J., Asbury Park**—Natatorium—See "Reinforced Concrete."

★**N. J., Newark**—Office—Mutual Benefit Life Insurance Co., 752 Broad St., let contract, Broad St., to New Jersey Cement Constr. Co., Inc., 359 Park Ave.

Md., Baltimore—School—Bd. Educ. received low bid Linwood Ave. School, from J. L. Robinson Constr. Co., Knickerbocker Bldg., $125,000.

★**Ga., Lagrange**—Bank—Lagrange Natl. Bank let contract to Hoggson Bros., 485 5th Ave., New York City, $70,000.

Miss., Tupelo—Hotel—Tupelo Hotel Co. let contract to Leake & Goodlet, Tupelo. Noted Apr. 5.

★**O., Celina**—(Official)—School—Trustees Immaculate Conception Congregation let contract to W. Brodbeck, St Mary's. About $50,000. Noted May 17.

★**Ind., Lafayette**—(Official)—Armory—Purdue University let contract to L. Colvin, 24th and Walton Sts., Anderson, $164,800. Noted May 17.

★**Mich., Grand Rapids**—(Official)—Bd. Educ. let contract addition to Union High School to Gentz Bros., Grand Rapids, $70,000. Noted May 10.

★**Wis., Eau Claire**—(Official)—Auditorium and Armory—City let contract to Hoeppner Bartlett Co., Eau Claire, $78,000. Noted May 10.

★**Wis., Fond du Lac**—Club—Kohler Improvement Co. let contract building for American Club to Imel Constr. Co., Fond du Lac, $125,000.

Wis., La Crosse—Sanatorium—County Bd. Supervs. received low bid from A. P. Hill Constr. Co., 4752 Upton Ave., S., Minneapolis, $49,310.

Ia., Marshalltown—(Official)—Soldiers' Home received low bid addition to Old Peoples' Bldg. from C. E. Atkinson, Webster City, $53,250.

★**Ia., Mason City**—Church—First Presbyterian Congregation let contract to W. O'Neil Sons Co., Faribault, Minn., $80,000.

★**Minn., Argyle**—Industrial and Community High School—Industrial School No. 2 let contract to F. L. Johnson & Son, 115 East 7th St., Duluth.

★**Kan., Hoxie**—(Official)—Courthouse—County let contract to G. Cope, Kansas City. About $50,000. Noted May 10.

★**Kan., Salina**—Freight Depot—Union Pacific Ry. let contract to Eberhardt Constr. Co., Salina, cost $80,000.

★**Neb., Hastings**—High School—Bd. Educ. let contract, brick, stone and concrete, to Olson & Johnson, 1st Natl. Bank Bldg., Omaha $125,000. Noted May 17.

★**S. D., Lake Andes**—Court House—County let contract to A. M. Wold, Brookings, $150,000. Noted May 3.

★**Tex., Paris**—School—City let contract to Owings, Shafner & Co., $51,000.

★**Colo., Colorado Springs**—Hotel—Broadmoor Hotel and Land Co. let contract to J. Stewart Constr. Co., 30 Church St., New York City.

★**Ariz., St. Johns**—(Official)—Courthouse—County let contract to N. P. Olson Constr. Co., St. Johns.

FEDERAL GOVERNMENT WORK

Proposed Work

N. H., Portsmouth—Pier—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., received no bids, May 21 pier for fitting out slip at Navy Yard. Noted May 10.

La., New Orleans—Crane—Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., rejected bids furnishing 2-ton floating crane. Noted May 17.

BIDS DESIRED

N. Y., New York—Dredging—Until June 23 by U. S. Engr. Office, Room 802, Army Bldg., 39 Whitehall St., New York, dredging in Passaic River, N. J.; advertised in this issue.

N. Y., New York—Structural Shop—Until June 4 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., Navy Yard. Noted May 24.

Pa., Ft. Mifflin—(Phila. P. O.)—Mine Storage Building Until June 11 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., Naval Ammunition Depot. Noted May 17.

Pa., Monessen—Post Office—Until June 26 by J. A. Wetmore, superv. archt., treas. dept., Wash.

Pa., Phila.—Caisson Gates—Until June 11 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., for dry docks at Phila. and Norfolk, Va., Navy Yards. Noted May 17.

Wash., D. C.—Buildings—Until June 25 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., 14 magazine buildings as follows: 7 for Lake Denmark, Dover, N. J.; 2 for Iona Island, N. Y.; and 5 for Hingham, Mass. Noted May 17.

Wash., D. C.—Building—Until June 4 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., extension to Building No. 16, St. Juliens Creek, Va.

Wash., D. C.—Coast Guard Station—Until June 14 by Navy Dept., U. S. Coast Guard Headquarters, Wash., for Coast Guard Station No. 184, Creeds Hill, N. C.; advertised in this issue.

Wash., D. C.—Dredging—Until June 14 by U. S. Engr. Office, 305 Southern Bldg., dredging in Potomac River at Washington, and Rappahannock River, Va.; advertised in this issue.

Wash., D. C.—Mine Storage Buildings—Until June 25 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., for 15 mine storage buildings, at following Naval Ammunition Depots: 6 for St. Juliens Creek, Va.; 3 for Newport, R. I.; 2 for Hingham, Mass.; 2 for Iona Island, N. Y.; 1 for Pensacola, Fla.; 1 for Guantanamo, Cuba. Noted May 17.

Va., Ft. Royal—Post Office—Until June 20 by J. A. Wetmore, superv. archt., treas. dept., Wash.

Va., Norfolk—Caisson Gates—See "Phila., Pa."

Va., Norfolk—Fence—Until June 4 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., fence for Navy Yard.

Fla., Pensacola—Storehouse and Magazine Buildings—Until June 18 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., 1 torpedo storehouse and 2 magazine buildings at Navy Aeronautic Station.

La., New Orleans—Coal—Until June 25 by U. S. Engr. Office, Customhouse, New Orleans, furnishing and delivering for U. S. Plant; advertised in this issue.

La., New Orleans—Willows and Poles—Until June 28 by U. S. Engr. Office, Customhouse, New Orleans, furnishing and delivering, for South and Southwest Passes, Mississippi River; advertised in this issue.

Mich., Detroit—Machinery and Valves—Until June 30 by U. S. Engr. Office, Detroit, installing, for 4th Lock, St. Marys Falls Canal, Mich.; advertised in this issue.

Tex., Galveston—Earthwork—Until June 20 by U. S. Engr. Office, Galveston, furnishing and placing fill, soil, sod and riprap at U. S. Reservation, Ft. Crockett.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., Portland**—Cement—U. S. Engr. Office, Portland, let contract furnishing cement, sand and rods to C. S. Chase, 5 Commonwealth St., Portland, cement, $26,650; P. H. Doyen, 40 Cottage St., South Portland, sand, $28,900; Concrete Steel Products Co., 7 Water St., Boston, reinforcing rods, $6166. Noted Apr. 5.

★**N. H. Portsmouth**—Coast Guard Station—U. S. Coast Guard, Wash., D. C., let contract Coast Guard Station No. 1, Quoddy, Me., to McDonald & Kivell, 10 High St., Boston, $9500, time to complete, Sept. 8. Noted May 24.

Mass., Boston—Coal Weighers—Bureau Yards and Docks, Navy Dept., Wash., received low bids, furnishing traveling coal weighers at central power plant, Navy Yard, (a) work complete, (b) alternate bid, from Guarantee Constr. Co., 140 Cedar St., New York City, (a) and (b) $12,610; 100 days; R. H. Beaumont Co., 426 Chester St., Phila., (a) $9200, (b) $9400; Richardson Scale Co., Athenia, N. J., (a) $25,510, 185 days. Noted May 10.

★**R. I., Newport**—Hospital—Bureau Yards and Docks, Navy Dept., Wash., let contract emergency hospital to M. F. Kelley, 51 East 42nd St., New York City, at cost plus 10%; estimated cost, $95,000.

★**N. Y., New York**—Dredging—U. S. Engr. Office, Room 802, Army Bldg., 39 Whitehall St., let contract dredging in Staten Island Sound to E. Breyman, Boston, $166,772. Noted Apr. 26.

Pa., Indiana—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid, May 24, (a) limestone, (b) sandstone, from W. H. Fissell & Co., 1133 Bway., New York City, (a) $58,700, (b) $60,700. Noted Apr. 26.

★**Pa., Phila.**—Pumping Plants—Bureau Yards and Docks, Navy Dept., Wash., let contract, for use at dry docks, Phila. and Norfolk, Va., to Worthington Pump and Machinery Corp., 115 Bway., New York City, $366,981. Noted May 24.

Pa., Phila.—Storehouse—Bureau Supplies and Accounts, Navy Dept., Wash., received low bids, May 21, for Navy Yard, from Industrial Engr. Co., 30 Church St., New York City, $566,000; J. H. Miller, Inc., Baltimore, Md., $578,000; Turner Concrete Steel Co., 1713 Sansom St., Phila., $588,887; Boyle-Robertson Constr. Co., Evans Bldg., Wash, cost plus 6%. Noted May 10.

Wash., D. C.—Air Compressors—Bureau Yards and Docks, Navy Dept., Wash., received bids, May 21, furnishing at various Navy Yards and Naval Stations, (a) each 8000 cu.ft. turbine-driven air compressor, (b) each 5000 cu.ft. same, (c) each 3500 cu.ft. same, (d) each 2500 cu.ft. same, (e) each 6500 cu.ft. same, (f) each 5000 cu.ft. reciprocating air compressor, (g) each 3500 cu.ft. same, (h) each 2500 cu.ft. same, from Ingersoll-Rand Co., 11 Bway., New York City, (a) $64,450, (b) $64,575, (c) $111,480, (d) $56,150, (e) $46,375, (f) $46,375, (g) $66,350, (h) $32,530; Worthington Pump and Machinery Corp., 111 Bway., New York City, (c) $45,755, (d) $46,315, (e) $55,130, (f) $55,130, (h) $29,975. Noted May 3.

★**Wash., D. C.**—Buildings—Bureau Yards and Docks, Navy Dept., let contract repairs and improvements to Naval Hospital to W. E. Mooney, Evans Bldg., $38,367. Noted May 24.

Wash., D. C.—Turbo-generators, etc.—Bureau Yards and Docks, Navy Dept., received low bids furnishing and installing 500 and 750 kw. turbo-generators and 2500, 3125, 3750 and 4375 kv.-a. turbo-alternators for various navy yards from Westinghouse Electric & Mfg. Co., Hibbs Bldg., Wash., and General Electric Co., River Rd., Schenectady. Noted May 10.

★**Wash., D. C.**—Water Meters—Dist. Comrs. let contract to Worthington Pump & Machinery Corp., 115 Bway., New York City, $7.75 each. Noted Apr. 26.

★**Va., Norfolk**—Foundry Building—Bureau Yards and Docks, Navy Dept., Wash., let contract to G. E. Wyne, Munsey Bldg., Wash., $370,000. Noted May 10.

★**Va., Norfolk**—Hospital—Bureau Yards and Docks, Navy Dept., Wash., let contract emergency hospital to Newport Engr. & Contr. Co., Newport News, at cost plus 10%, estimated cost, $95,000. Noted May 24.

★**Va., Norfolk**—Machine Shop—Bureau Yards and Docks, Navy Dept., Wash., let contract machine shop to G. E. Wyne, Munsey Bldg., Wash., $553,666. Noted May 10.

★**Ga., Fitzgerald**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to Wise Granite & Constr. Co., Amer. Natl. Bank, Richmond, Va., $41,900. Noted May 24.

Fla., Lakeland—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids, (a) limestone, (b) sandstone, from Wise Granite & Constr. Co., American Natl. Bank Bldg., Richmond, (a) $45,500, (b) $46,500; W. H. Fissell & Co., 328 Bway, New York City, (a) $50,865, (b) $51,865; A Blair, Hill Bldg., Montgomery, Ala., (a) $51,350. Noted May 17.

★**Fla., Pensacola**—Hangars and Erecting Shop—Bureau Yards and Docks, Navy Dept., Wash., let contract, Pensacola Naval Station, to H. Monk, Pensacola, $359,900. Noted May 17.

★**Fla., Pensacola**—Hospital—Bureau Yards and Docks Navy Dept., Wash., let contract emergency hospital to H. Monk, Pensacola, at cost plus 10%; estimated cost, $150,000.

Fla., Pensacola—Observation Tower—Bureau Yards and Docks, Navy Dept., Wash., received only bid constructing 200-ft. steel observation tower at Navy Aeronautic station, from Penn Bridge Co., Bond Bldg., Wash., $28,455. Noted May 10.

★**La., New Orleans**—Hospital—Bureau Yards and Docks, Navy Dept., Wash., let contract emergency hospital to J. Thatcher & Sons, 60 Park Ave., Brooklyn, N. Y., at cost plus 10%, estimated cost, $140,000.

★**La., New Orleans**—Storage Shed—Bureau Yards and Docks, Navy Dept., Wash., let contract to Penn Bridge Co., Bond Bldg., Wash., $42,370. Noted May 24.

O., Washington C. H.—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid, May 25, from Ohio Bldg. & Constr. Co., Burnett St., near McMillan St., Cincinnati, limestone $78,500, sandstone, $78,900. Noted Apr. 26.

Federal Government Work (Continued)

★Mich., Detroit—Timber—U. S. Engr. Office, Detroit, let contract furnishing 1,226,000 ft. fir timber to Saari & Tully Lumber Co., G. W. Bank Bldg., Portland, Ore., $15,630. Noted May 17.

★Mich., Port Huron—Dredging—U. S. Engr. Office, Detroit, let contract dredging Black River, at Port Huron, to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago, $32,000. Noted May 24.

★Mich., Saulte Ste. Marie—Electric Cables and Wire—U. S. Engr. Office, Detroit, let contract furnishing and delivering electric cables and wire at Saulte Ste. Marie to Standard Underground Cable Co., 50 Church St., New York City. Noted Apr. 5.

Ill., Charleston—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received bids, May 25, from G. W. Stifes Constr. Co., Rookery Bldg., Chicago, $46,236; Dunlap & Co., Columbus, O., $47,850; C. D. Mitchell & Son, Charleston, $51,000. Noted May 17.

★Ia., Cedar Falls—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to C. Weitz Sons, 713 Mulberry St., Des Moines, $49,990. Noted May 24.

Minn., Duluth—Dredging—U. S. Engr. Office, Duluth, received low bids, dredging Duluth-Superior Harbor, Minn., and Wis., (a) 2,904,000 cu.yd. (b) hydraulic dredging, 300,000 cu.yd., from L. C. Merritt, Duluth, (a) 14c. per cu.yd., (b) 14c.; Great Lakes Dredge & Dock Co., 15th floor, Alworth Bldg., (a) 13c.; Zenith Dredge Co., 303 Glencoe Bldg., (a) 13½c., (b) 13½c.; Duluth-Superior Dredging Co., foot of 45th Ave., W., (a) 12½c., (b) 12½c. Noted Apr. 26.

Kan., Girard—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids, limestone, from C. Weitz Sons, 713 Mulberry St., Des Moines, $47,900; W. D. Lovell, 1415 South East 8th St., Minneapolis, $47,875. Noted May 17.

★Mont., St. Ignatius—Canal Work—U. S. Rec. Ser., St. Ignatius, let contract Schedules 1, 2, 3 and 4, for earthwork on Camas division laterals B. C. and D, Flathead Irrigation Project, to Ball & Jaffe, Seattle Wash., $48,197; Schedules 5 and 6, extension of laterals A and C to Mendenhall & Bird, Springfield, Utah, $10,127. Noted Apr. 26.

★Mo., St. Louis—Levee Work—Mississippi River Comn., 1311 International Life Bldg., let contract 110,000 cu.yd. earthwork in Riverland Levee Dist. to F. C. Morgan, Indianapolis, $17,600. Noted Apr. 19.

★Ark., Prescott—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to A. Blair, Hill Bldg., Montgomery, Ala., $47,-300. Noted May 17.

★Tex., Commerce—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to A. Blair, Hill Bldg., Montgomery, Ala., $43,-752. Noted May 10.

Tex., El Paso—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids (a) limestone, (b) sandstone, from W. H. Maxwell, Lakeside, Wash., (a) $282,980; W. D. Lovell, 1415 8th St., S. E., Minneapolis, (a) $294,000; Kroeger, Mayfield & Shaw, El Paso, (a) $295,067, (b) $300,000. Noted Apr. 19.

★Cal., Bolinas—Coast Guard Station—U. S. Coast Guard, Wash., let contract Coast Guard Station No. 2 at Bolinas Bay, to J. E. Johanson, San Francisco, $9988. Noted May 24.

★Cal., Vallejo—Mess Hall—Bureau Yards and Docks, Navy Dept., Wash., let contract, Mare Island, Navy Yard, to W. Knowles, 425 Central Bank Bldg., San Francisco, $14,202.

★Cal., Vallejo—Shell House and Laboratory—Bureau Yards and Docks, Navy Dept., Wash., let contract Naval Ammunition Depot, Mare Island, to Lang & Bergstrom, Sharon Bldg., San Francisco, $21,934. Noted May 24.

MISCELLANEOUS

Proposed Work

Transmission Line—Easthampton, Mass.—Turners Falls Power and Electric Co. applied to Selectmen for permission to erect, from Easthampton town line across Hampton Plains to power station of local division of Springfield Street Ry., thence along Westfield River bank to town of Agawam. F. L. Hunt, Greenfield, ch. engr.

Transmission Line—Fall River, Mass.—Fall River Electric Light Co. applied to Massachusetts Gas and Electric Light Comn. for permission to erect, over Taunton River at point near Fall River plant, south of Slade's Ferry Bridge through Somerset, Swansea and Seekonk to Rhode Island state line. A. H. Kimball, 85 North Main St., genl. mgr.

Coal Pocket—Woonsocket, R. I.—Manufacturers' Power Co. purchased site, 2nd Ave. and River St., and will build, for power plant on Singleton St.

Rock Crusher—Syracuse, N. Y.—Common Council plans to purchase. About $10,000. H. C. Allen, city engr.

Asphalt Plant—Bayonne, N. J.—City Comn. plans to purchase, for street repair work. About $10,000. W. P. Lee, city clk.

Port Terminal—Bayonne, N. J.—City Comn. plans to hold election to vote on $8,000,000 bonds to build port terminal on New York Bay. W. L. Clarkson, city engr.

Transmission Line—Easton, Pa.—Pennsylvania Utilities Co. will erect double circuit 33,000-volt transmission line from Easton to Milford, Warren, Hughesville and Riegelsville, N. J., to furnish energy to paper mills of Warren Mfg. Co. requiring about 3500 hp. in motors. W. D. Ray, Easton, vice pres. and mgr.

Track Floors, Etc.—Phila., Pa.—See "Reinforced Concrete."

Elimination of Grade Crossings—Pittsburgh, Pa.—(Hazlewood)—Bd. Trade plans bond issue to eliminate 2 grade crossings in 2nd Ave. at Marion and Hazlewood Aves. and to improve thoroughfare from 10th St. Bridge to city line. R. Swan, city engr.

Parks—Va., Richmond—See "Water-Works."

Transmission Line—Bennettsville, S. C.—Southern Power Co., Charlotte, N. C., plans through Marlboro Co. passing near Bennettsville, McColl and Tatum. Plans include substation.

Drydock—Mobile, Ala.—Henderson Iron Works Co., Eslava St., plans 6000-ton floating drydock to operate in connection with its iron works.

Transmission Line—Lothair, Ky.—Kentucky River Power Co., Hazard, plans, from Lothair into Lotts Creek field to furnish electricity to coal mines. L. E. Woods, Welch, W. Va., pres.

Subway—Ashtabula, O.—Engr. Dept. New York Central R.R., Lines West of Buffalo completed plans subway at Center St., to be built by New York Central R.R., Pennsylvania Lines West of Pittsburgh, and City. Estimated cost, $380,000, railroads paying 65% of same. A bond issue will soon be voted on. L. A. Amsden, city engr. G. C. Cleveland, St. Clair Ave. and West 3rd St., Cleveland, ch. engr. former rr.

Flood Protection—Warren, O.—(Official)—G. T. Hecklinger, city aud., will sell $25,000 bonds, June 16, for straightening and improving Mahoning River to prevent floods.

Subway—Muncie, Ind.—R. H. Bunch, mayor, approved ordinance for subway at Elliott St., under tracks of Cleveland, Cincinnati, Chicago & St. Louis Ry. and Lake Erie & Western R.R. C. A. Paquette, Cincinnati, ch. engr. of former R.R. J. K. Conner, Washington and Noble Sts., Indianapolis, ch. engr. of latter.

Incinerating Plant—Kansas City, Mo.—City plans. C. Hill, city engr.

Harbor Improvements—Astoria, Ore.—Port of Astoria Comn. plans to improve harbor by deepening channels, including those in Youngs Bay, Youngs River, the Lewis and Clark and other streams in vicinity.

Shipways—Alameda Point, Cal.—(Alameda P. O.)—Barnes & Tibbits Shipbuilding Co., San Francisco, recently organized with $100,000 capital stock, will take over plant of Pacific Shipyards Co. and install 2 new shipways.

Shipways—Eureka, Cal.—Gastman Shipyards plan to lay 2 shipways and will purchase machinery for their operation.

Harbor—Redondo Beach, Cal.—R. S. Davidson & Co., 42 Bway., New York City, members of New York syndicate, presented proposal to City Council through L. B. Jennings for constructing harbor here. Terms require city to raise $3,000,-000 and neighboring town of Hermosa Beach $100,000 by bond issue, Atchison, Topeka & Santa Fe Ry. and other business interests $600,000 cash. At expiration of 40-year lease ownership would divert to city. Plans include 13,500-ft. dockage, with provisions for enlargements as needed. Railroad Co. and City have signified their willingness to help finance this project.

Flood-Control Work—Sacramento, Cal.—Governor signed bill appropriating $500,000 for flood-control work in Lower Sacramento River.

Wharves, etc.—Burnaby, B. C.—Government asked to issue $1,500,000 bonds to establish wharves, etc. Hon. Dr. King, Victoria, minister pub. wks.

Harbor, Etc.—Mexico, Mex.—Dept. Pub. Wks. of Federal Government had plans prepared for deep-water harbor and extensive port works at Bahia Espiritus, Santo Bay, on coast of Territorio Quintana Roo. United Railroads of Yucatan will build extension to harbor, about 100 mi. Julio Rendon, Merida, Yucatan, Mex., gen. mgr., of Ferrocarriles Constitucionalistas En Yucatan, interested.

BIDS DESIRED

Tunnel Improvements—Boston, Mass.—(Official)—Until June 7 by B. L. Beal, secy. Boston Transit Comn., 15 Beacon St., setting about 3800 sq.yd. ribbed tile on walls, putting on Portland cement plaster for straightening walls, and setting about 800 sq.yd. ribbed tile for partitions in Bway. and Andrew stations of Dorchester Tunnel.

Castings—New York, N. Y.—Until June 7 by W. Williams, comr. water supply gas and electricity, Room 2351 Municipal Bldg., furnishing, delivering unloading, stacking and storing cast special castings.

Fire Escapes—Rochester, N. Y.—(Official)—Until June 8 by E. S. Elwood, secy. state hospital comn., Capitol, Albany, for Rochester State Hospital; advertised in this issue.

Transmission Line—Ft. Dodge, Ia.—Until June 5 by City Clk. for furnishing all tools and materials and erecting transmission line in city.

Fire-Alarm System—Placerville, Cal.—Until June 4 by O. E. Bailey, city clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Station Finish—Brooklyn, N. Y.—(Official)—Pub. Ser. Comn. for 1st Dist., 120 Bway., New York City, let contract station finish for 9 stations on Eastern Pkwy. Subway and so-called Brighton Beach connection in Brooklyn to Snare & Triest Co., Woolworth Bldg., New York City, $464,543. Noted May 24.

Bulkhead—New York, N. Y.—See "Reinforced Concrete."

★Ties and Timber—New York, N. Y.—(Official)—Pub. Ser. Comn. for 1st Dist., 120 Bway., let contract supplying Order No. 4, untreated ties and timber for use on new rapid transit railroads, to J. H. Burton & Co., 45 Bway., $54,913. Noted May 10.

★Garbage Incinerator—New Brunswick, N. J.—City Comn. let contract to Nye Odorless Crematory Co., Macon, Ga., $22,800.

Riprap—Harrisburg, Pa.—Park Dept. received low bid ripraping river slopes, Calder to Maclay Sts., from Frank Baumgartner, Harrisburg, 95c. per sq.yd.

★Park Work—Phila., Pa.—Dept. Pub. Wks. let contract, constructing last section of League Island Park, west of Broad St., to E. H. Vare, Lincoln Bldg., $183,000. Noted May 3.

★Piers—Phila., Pa.—Pennsylvania R.R. let contract repairing 7 piers to Latta & Roberts, 5th and Chestnut Sts.

★Station Platforms—Phila., Pa.—See "Structural Steel."

★Wharf—Phila., Pa.—See "Industrial Works."

★Transmission Line—Eastman, Ga.—Georgia & Southern Utilities plans, from Eastman to Chauncey, thence to Milan and Ryan, 22,000 volt line to develop 200-hp., about 18-mi. Work will be done by company's forces. C. R. Hodgson, mgr.

★Seawall—Biloxi, Miss.—County let contract, from Biloxi to Pass Christian along lines of sloping beach, to Callahan Constr. Co., 1517-18 City Natl. Bank Bldg., Omaha.

★Retaining Walls—Cincinnati, O.—See "Streets and Roads."

★Culverts—Roseau, Minn.—(Official)—County let contract furnishing various sizes metal culverts to Russell Grader Mfg. Co., 2005 University Ave., S. E., Minneapolis. Noted May 17.

★Monument and Fountain—Denver, Colo.—J. R. M. Morrison, archt., 20 West Jackson Blvd., Chicago, let contract memorial monument and fountain, as gift for city, donator's name withheld, to Colorado Yale Marble Co., Marble, $100,-000.

★Dam—La Junta, Colo—Nine Mile Canal Co. let contract dam across Purgatoire River to L. F. Williams, Pueblo, $10,000.

★Pier—San Francisco, Cal.—State Bd. Harbor Comrs. will build Pier No. 46 by day labor. Noted May 17.

TRADE CATALOGS

Link-Belt Wagon and Truck Loaders. Link-Belt Co., 39th St. and Stewart Ave., Chicago, Ill. Catalog No. 270; pp. 64; 6 x 9 in.; illustrated.

Gold's Thermostatic Heat Regulating System. Gold Car Heating and Lighting Co., 17 Battery Pl., New York City. Booklet; pp. 8; 3½ x 6 in.; illustrated.

Brownhoist Overhead Hand Traveling Cranes. The Brown Hoisting Machinery Co., Cleveland, O. Catalog P; pp. 36; 6 x 9 in.; illustrated.

Penflex Metal Hose. Pennsylvania Flexible Metallic Tubing Co., Philadelphia, Pa. Catalog; pp. 32; 6 x 9 in.; illustrated.

"Imperial X" Duplex Steam-Driven Compressors. Ingersoll-Rand Co., 11 Broadway, New York City. Form No. 3311; pp. 20; 6 x 9 in.; illustrated.

"Little David" Pneumatic Drills. Ingersoll-Rand Co., 11 Broadway, New York City. Form No. 8507; pp. 40; 6 x 9 in.; illustrated.

"Reducing Ultimate Culvert Costs." United States Cast Iron Pipe and Foundry Co., Burlington, N. J. Pamphlet; pp. 24; 3½ x 6 in.; illustrated. Contains tables of thicknesses and list prices.

"About Culverts." The Sewer Pipe Manufacturers' Association, Second National Bank Bldg., Akron, O. This is the title of a pamphlet describing vitrified clay pipe for culverts and side drains. Pp. 32; 6x 9 in.; illustrated.